

LEHIGH ALUMNI BULLETIN

VOLUME 8

JANUARY, 1921

NUMBER 4

NEWS AND COMMENT
LEHIGH ALUMNI MEMORIAL
A RENAISSANCE IN LEHIGH ATHLETICS
"SAUERKRAUT AND KINKS"
ECHOES FROM "LIFE AT LEHIGH"
IN THE SEVENTIES"
COLLEGE AND ALUMNI NEWS
NEWS OF THE CLASSES

PUBLISHED MONTHLY DURING THE COLLEGE
YEAR BY THE ALUMNI ASSOCIATION OF
LEHIGH UNIVERSITY, INC.



FORT PITT BRIDGE WORKS

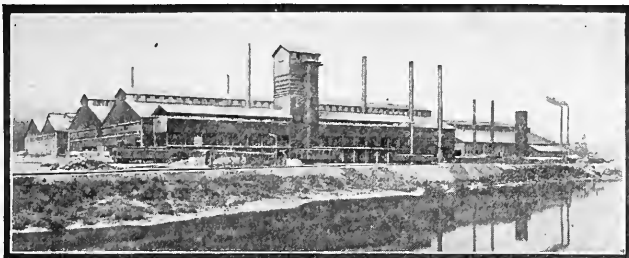
OF PITTSBURG, PA.

**BRIDGES, BUILDINGS
STRUCTURAL STEEL**

**General Office, House Building, Pittsburgh
New York Office, 29 Broadway
Chicago Office, Ashland Block
Cleveland Office, Marshall Building
Purchasing Dept. and Works, Canonsburg**

**THEO. A. STRAUB, '90,
H. R. BLICKLE, '93,
P. B. STRAUB, '97,
SCHUYLER B. KNOX, '93,
E. H. BEAZELL, '90,**

**Vice-President and General Manager
Secretary and Chief Engineer
Treasurer
Contracting Engineer
Works Manager**



*Tube Mills of the Republic Iron & Steel Company
Youngstown, Ohio*

Solving the Problem of Production

**We Design,
Manufacture and Erect**

Steel Structures for
Industrial Buildings
Bridges and viaducts
Power Plants
Viaducts
Lock Gates
Foundries and Machine Shops
Train Sheds
Warehouses
Crane Runways
Office and Store Building,
Etc.

McClintic-Marshall

THE power of production lies not entirely in operating efficiency, nor in daylight conservation—but, to an equal extent, in adequate factory facilities. Ample floor space, proper lighting, sufficient ventilation—these are determiners of production and efficiency. Over 5000 industrial buildings of diversified character demonstrate the ability of McClintic-Marshall Company to construct steel structures that promote maximum production.

McClintic-Marshall engineers are prepared to assist you, whether your requirements are large or small.

Ask for descriptive booklet Z 206.

McClintic-Marshall Company

C. D. Marshall, '88, Pres.

H. H. McClintic, '88, Vice Pres. & Gen. Mgr.

General Offices: 1201 Oliver Building, PITTSBURGH, PA.

BOSTON, MASS., 68 Devonshire Street
CHICAGO, ILL., 1st National Bank Building
CINCINNATI, OHIO, Union Central Building
CLEVELAND, OHIO, Staller Hotel
DETROIT, MICH., Book Building
NEW YORK CITY, 50 Church Street

PHILADELPHIA, PA., Morris Building
POTTSTOWN, PENNSYLVANIA
SAN FRANCISCO, CAL., Call Building
SEATTLE, WASH., Colman Building
SYRACUSE, N. Y., University Building
WASHINGTON, D. C., Munsey Building

Foreign Contract Dept.: 50 Church Street, New York City, U. S. A.

McClintic-Marshall

Steel Buildings and Bridges

American Abrasive Metals Co.

WM. H. SAYRE, '86, President
50 CHURCH ST.



R. S. EDMONDSON, '06, Vice-Pres.
NEW YORK



[A patented combination of iron and abrasive grit]

To Prevent Slipping Accidents

Floor Plates
Stair Treads and Landings
Running Boards and Steps
Door Saddles

Car Steps and Platforms
Coal Hole Covers
Drainage Gratings
Cover Plates

For General Industrial Uses

Truing Up Brake Shoes
Pug Mill Paddles
Rabble Blades

Ash and Coal Conveying
Pipe, Chutes,
Liner Plates, etc.

GEORGE C. HUTCHINSON, '94
District Representative
Farmers Bank Bldg., Pittsburgh, Pa.

B. P. LAMBERTON, '05
District Representative
Washington, D. C.



SPECIALISTS
IN
DESIGN AND CONSTRUCTION

AUBREY WEYMOUTH, '94
CHIEF ENGINEER

THE DRAVO CONTRACTING COMPANY PITTSBURGH

DIFFICULT FOUNDATIONS, RIVER and HARBOR IMPROVEMENT
BRIDGE PIERS and DAMS, MINING PLANT CONSTRUCTION
SHAFTS, SLOPES and TUNNELS

ASSOCIATED WITH THE COMPANY

F. R. DRAVO, '87
R. M. DRAVO, '89

J. J. NOLAN, '01
J. D. BERG, '05
E. T. GOTT, '06

J. B. CARLOCK, '07
L. C. ZOLLINGER, '09
V. B. EDWARDS, '11

DRAVO-DOYLE COMPANY

CLEVELAND PITTSBURGH INDIANAPOLIS PHILADELPHIA

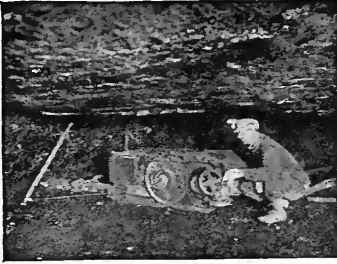
STEAM and HYDRAULIC EQUIPMENT, COMPLETE POWER
PLANT, WATER WORKS INSTALLATIONS

ASSOCIATED WITH THE COMPANY

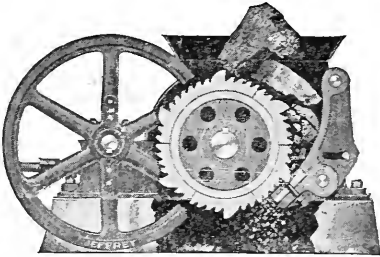
F. R. DRAVO, '87
R. M. DRAVO, '89

J. D. BERG, '05

S. P. FELIX, '03
E. S. ADAMS, '06



35-B Shortwall Coal Cutter
In operation



Single Roll Coal Crusher

Ask for Catalogs on

Jeffrey

Coal Cutters, Drills, Locomotives,
Pit Car Loaders, Mine Ventilation
Fans, Elevating and Conveying Ma-
chinery, Portable Loaders, Crushers,
Pulverizers, Coal and Ashes Handling
Machinery, etc.

These catalogs are textbooks
upon their respective subjects
and are free to Lehigh Stu-
dents or Alumni.

The Jeffrey Mfg. Co.

830 North Fourth Street
COLUMBUS, OHIO

John F. Flory, '01, Sales Mgr. Mining Dept.

SHOEMAKER-SATTERTHWAIT BRIDGE CO.

FABRICATED STEEL FOR

BRIDGES AND BUILDINGS

LEWIS F. SHOEMAKER
PRESIDENT

JOS. H. FICHTHORN
CHIEF ENGR.

THOMAS C. SATTERTHWAIT
SEC. AND TREAS.

LEWIS D. RIGHTS, '93
CONTRACTING MGR.

HOME OFFICE AND WORKS, POTTSTOWN, PA.

NEW YORK

PHILADELPHIA

H. T. RIGHTS, '95, DESIGNING ENGR.

E. J. RIGHTS, '95, ERECTION ENGR.

A. K. HOHL, '11, CONTRACTING ENGR.

**LOWER THE COST OF LIFTING,
Conveying, Loading and Unloading
Your Products by**

**"BROWN-PORTABLE" Continuous - Motion
Handling Machinery**

Inclined Portable Elevators for packed goods of all kinds
Portable and Sectional Power Conveyors for packed goods
Wagon, Truck, Car and Boat Loaders and Unloaders
Belt Conveyors for Loading Coal, Sand, Gravel, &c.
Vertical Tying Machines for handling bulky packages
"Built to Fit the Job"

BROWN PORTABLE CONVEYING MACHINERY CO.
10 South La Salle Street, CHICAGO, ILLINOIS.

HARWOOD FROST, '93, PRESIDENT

Largest Engineering organization exclusively devoted to the Design and Manufacture of
PORTABLE ELEVATING, CONVEYING, LOADING and UNLOADING MACHINERY
for the Rapid and Low-Cost Handling of Packed and Loose Materials

WESTERN STRUCTURAL STEEL & TANK CO.

INCORPORATED 1914

ENGINEERS AND MANUFACTURERS
STRUCTURAL STEEL, BOILERS, TANKS, ETC.
CHARLES MCGONIGLE, '01, PRES. OTHO POOLE, SECT.
PORTLAND, OREGON.

POOLE-DEAN COMPANY

INCORPORATED 1911

STEEL CONTRACTORS
ERECTORS OF BRIDGES AND BUILDINGS
PORTLAND, OREGON

OTHO POOLE, PRES.

CHARLES MCGONIGLE, '01, SECT

LEVERING & GARRIGUES CO.

552 W. 23d STREET

BOSTON, MASS.

NEW YORK

HARTFORD, CONN.

STEEL CONSTRUCTION

DESIGNERS, MANUFACTURERS
ERECTORS OF STEEL STRUCTURES

ENGINEERS AND GENERAL CONTRACTORS
FOR INDUSTRIAL BUILDINGS

L. L. GADD, '94, Vice-President.

R. F. GADD, '93, New Eng. Mgr.

Clarence L. Harper

Arthur Peck, '03

HARPER & TURNER

INVESTMENT BANKERS

SECURITIES FREE OF THE
PENNSYLVANIA STATE TAX

STOCK EXCHANGE BUILDING
PHILADELPHIA

439 Penn Street
READING

530 Spruce Street
SCRANTON

C. L. MCKENZIE, '93, PRES.

C. C. BURGESS, '95, CHIEF ENGR.

PITTSBURGH CONSTRUCTION CO. GENERAL CONTRACTORS

DIAMOND BANK BUILDING

PITTSBURGH, PA.

STEEL BRIDGE ERECTION, CONCRETE MASONRY, Etc.

C. L. MCKENZIE, '93, PRES.

C. C. BURGESS, '95, ASST. ENGR.

CONCRETE PRODUCTS COMPANY OF PITTSBURGH

DIAMOND BANK BUILDING

PITTSBURGH, PA.

REINFORCED, FACTORY-MADE,
CONCRETE CULVERT PIPE,
EMBANKMENT CRIBBING, ETC.

USE
"LIMOID" for **ECONOMY**

In Laying Brick with cement-mortar an addition of "Limoid" (pure "Cedar Hollow" hydrated lime) to the mortar mixture will enable bricklayers to lay more bricks per hour and will give a better bonding mortar.

In placing Concrete an addition of "Limoid" will give a faster flowing mass which will be freer from "honey-comb" and weak sections.

Charles Warner Company

FRED. A. DABOLL, '96, General Sales Manager

Wilmington, Del.

Philadelph'a, Pa.

New York City

Atholeather

America's Best Leather Cloth

MADE IN WEIGHTS SUITABLE

FOR UPHOLSTERING AUTOMOBILES, FURNITURE,
AUTOMOBILE TOP MATERIAL, BOOK BINDING,
HAT LEATHERS, TRAVELING BAGS, POCKET
BOOKS, BABY CARRIAGE HOODS, Etc.

Athol Manufacturing Company

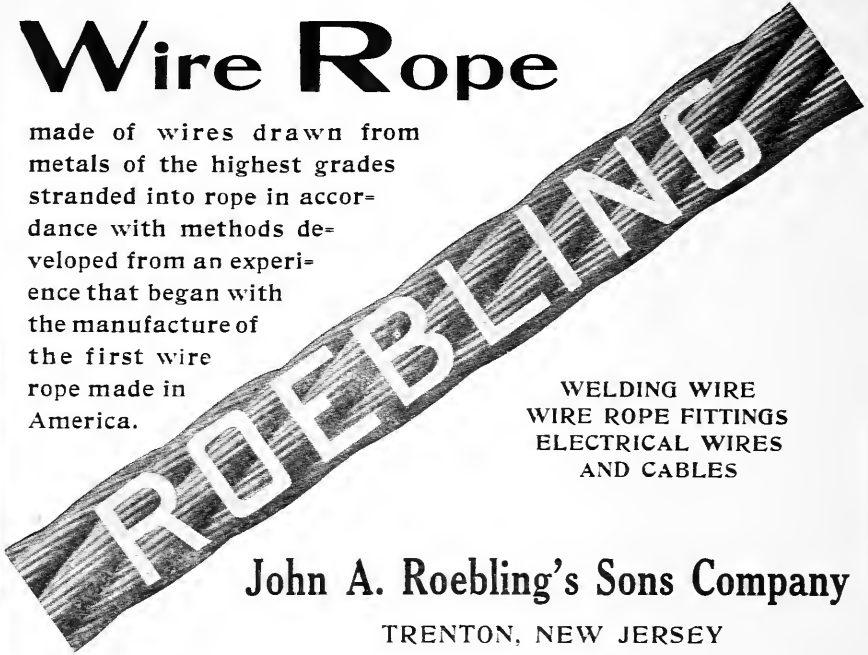
Factories { Athol, Mass.
Marysville, Mich.

NEW YORK DETROIT CHICAGO ST. LOUIS LONDON, ENG.

L. E. CARPENTER, '13
E. A. CLARE, '16
G. E. ALLING, '17
T. G. RALPH, '17

Wire Rope

made of wires drawn from metals of the highest grades stranded into rope in accordance with methods developed from an experience that began with the manufacture of the first wire rope made in America.



WELDING WIRE
WIRE ROPE FITTINGS
ELECTRICAL WIRES
AND CABLES

John A. Roebling's Sons Company

TRENTON, NEW JERSEY

THE WILSON ROLLING STEEL DOOR



Hand and Motor operated

Passed by the Board of Fire
Underwriters

Made for any size opening

THE J. G. WILSON CORPORATION

NORFOLK, VA.

8 West 40th St., N. Y.

J. F. MIDDLEDITH, '99, Sec'y and Treas.

Standard Underground Cable Company

Manufacturers of

Copper, Brass, Bronze Wires and Rods
Copper and Brass Tubes
Colonial Copper Clad Steel Wire
Bare and Insulated Wire of all kinds
Lead Covered and Armored Cables
Cable Accessories of all kinds

General Offices
Pittsburgh, Pa.

Branches

Boston	Philadelphia	Atlanta	Chicago	St. Louis
New York	Washington	Pittsburgh	Detroit	Seattle
	Los Angeles	Salt Lake City	San Francisco	

P. H. W. Smith, '92, Vice President.

G. J. Shurts, '12.

E. J. Carmichael, '17.

F. W. Wilson, '22.

NEWPORT CHEMICAL WORKS INCORPORATED

— SELLING —

DYES

INTERMEDIATES

PHARMACEUTICALS

CHEMICALS

MANUFACTURED BY

THE NEWPORT COMPANY

CARROLLVILLE, WIS.

JOHN W. SHAEFFER, '01, VICE-PRESIDENT

MAURICE T. COAKLEY, '12

JOHN MCKAY, '18

VICTOR
BITUMINOUS COAL
ANTHRACITE COAL
AND COKE

GRAND CENTRAL TERMINAL
NEW YORK CITY
NORTH AMERICAN BUILDING
PHILADELPHIA

REMBRANDT PEALE, '83

Empire Coal Mining Company

Miners and Shippers

EMPIRE *Bituminous Coal*

Stephen Girard Building

PHILADELPHIA

WM. ALDER WEBB, '91, President

Weston Dodson & Co. Inc.

MINERS AND SHIPPERS

ANTHRACITE AND BITUMINOUS COALS

General Office BETHLEHEM

ALAN C. DODSON,	'00,	Branch Offices
T. M. DODSON,	'00,	PHILADELPHIA
G. R. RADFORD,	'84,	NEW YORK
C. S. KENNEY,	'10,	NEW HAVEN
H. B. TINGES,	'12,	BALTIMORE
C. L. PACKARD,	'14,	DETROIT
H. M. SEARCH,	'15,	SCRANTON
E. M. ROBINSON,	'17,	NORFOLK
		BLUEFIELD
		BUFFALO
		PITTSBURGH

OFFICIAL DIRECTORY ALUMNI ASSOCIATION LEHIGH UNIVERSITY, Inc.

President: Charles D. Marshall, Oliver Bldg., Pittsburgh, Pa.
Vice-President: H. D. Wilson, No. 2 Ross Street, Pittsburgh, Pa.
Vice-President: Robert Farnham, Broad Street Station, Philadelphia, Pa.
Treasurer: A. C. Dodson, care of Weston Dodson Co., Inc., Bethlehem, Pa.
Secretary: Walter R. Okeson, Drown Memorial Hall, Bethlehem, Pa.
Archivist: Preston A. Lambert, 215 South Centre Street, Bethlehem, Pa.

Honorary Alumni Trustees

Franklin Baker, Jr., N.E. Corner 13th and Market Streets, Philadelphia, Pa.
Henry H. Scovil, Universal Steel Co., Bridgeville, Pa.
Homer D. Williams, Carnegie Bldg., Pittsburgh, Pa.
William C. Dickerman, 165 Broadway, New York, N. Y.

Alumni Members Athletic Committee

Eugene G. Grace, '99.
T. Burns, '01.
George C. Beck, '03.
Walter R. Okeson, '96, Treasurer.

Alumni Educational Committee

C. D. Marshall, '88, Chairman.
Franklin Baker, Jr., '95, Vice-Chairman.
H. G. Reist, '86, Elec. Dept.
M. A. DeWolfe Howe, '86, Arts.
H. H. McClintic, '88, Civ. Dept.
R. S. Perry, '88, Chem.
S. D. Warriner, '90, Mining.
H. T. Morris, '91, Mech.
W. A. Landis, '02, Met. and Chem.
George F. Murnane, '10, Bus. Adm.
W. R. Okeson, '96, Sec'y.

Alumni Conference Committee

C. D. Marshall.
Harlan S. Miner.
W. C. Dickerman.
Walter R. Okeson.

Bulletin Publication Committee.

T. M. Eynon, Chairman.
S. B. Knox, Vice-Chairman.
M. A. DeWolfe Howe.
Paul M. Paine.
George F. Murnane.
Raymond Walters.
Walter R. Okeson, Editor.

Alumni Memorial Committee.

Charles L. Taylor, Chairman.
Franklin Baker, Jr., Vice-Chairman.
Frank R. Dravo, Chm. Building Comm.
H. H. McClintic, Building Committee.
W. C. Pickerman, Building Committee.
E. G. Grace, Building Committee.
H. R. Price.
H. S. Drinker.
Wm. Jennings.
F. A. Daboll.
W. P. Starkey.
W. R. Okeson, Secretary both Committees.

Secretaries Local Alumni Clubs

Chicago Lehigh Club, H. W. Kern, '92,
Secretary, 179 West Washington Street,
Chicago, Ill.
Detroit Lehigh Club, R. M. Neff, Secre-
tary, care Detroit Steel Products Co.,
Detroit, Mich.
Intermountain Lehigh Club, H. L. Bald-
win, '07, Secretary, Box 115, University
of Utah, Salt Lake City, Utah.

Lehigh Club of Central Pennsylvania, L.
G. Krause, '01, Secretary, 1912 Market
St., Harrisburg, Pa.

Lehigh Club of China, Yen Te Ching, '01,
President, Wuchang, China.

Lehigh Club of Cuba, E. Beato, '08, Secre-
tary, 76 Paseo de Marti, Havanna, Cuba.

Lehigh Club of New England, D. K. Dean,
'06, Secretary, Allberger Pump and Con-
denser Co., 88 Broad St., Boston, Mass.

Lehigh Club of Northern New York, C. L.
Moffatt, '04, Secretary, 218 Glenwood
Boulevard, Schenectady, N. Y.

Lehigh Club of Northern Ohio, P. L. Cobb,
'92, Secretary, 1566 Mistletoe Drive,
Cleveland, Ohio.

Lehigh Club of Southern New England,
J. W. Thurston, '96, Secretary, 284
Asylum St., Hartford, Conn.

Lehigh Club of Western New York, R. H.
Torrey, '09, Secretary, Defiance Paper
Co., Niagara Falls, N. Y.

Lehigh Home Club, R. M. Bird, '02, Sec-
retary, Bethlehem, Pa.

Maryland Lehigh Club, F. E. Rasmers, '11,
Secretary, 3201 Presbury St., Baltimore,
Md.

New York Lehigh Club, Jacob Stair, Jr.,
'11, Secretary, P. R. R., Pennsylvania
Station, New York City.

Northeast Pennsylvania Lehigh Club, P. S.
Warriner, '10, Secretary, 161 N. Frank-
lin St., Wilkes-Barre, Pa.

Philadelphia Lehigh Club, Moriz Bernstein,
'96, Secretary, 2130 Estaugh Street,
Philadelphia, Pa.

Pittsburgh Lehigh Club, George M. Baker,
'07, Secretary, General Electric Co.,
Oliver Bldg., Pittsburgh, Pa.

Southern Anthracite Lehigh Club, A. W.
Wright, '03, Secretary, Eastern Steel
Co., Pottsville, Pa.

Washington Lehigh Club, H. J. Jackson,
'08, Secretary, 514 Union Trust Bldg.,
Washington, D. C.

Southwestern Lehigh Club, F. P. Lawrence,
'10, Secretary, care of Southwestern
Telephone and Telegraph Co., St. Louis,
Mo.

ALUMNI BULLETIN

OF

LEHIGH UNIVERSITY

PUBLISHED MONTHLY BY THE ALUMNI ASSOCIATION, DROWN HALL, BETHLEHEM, PA.
SUBSCRIPTION PRICE, \$2.00 A YEAR

VOLUME 8

JANUARY, 1921

NUMBER 4

NEWS AND COMMENT

The Presidential Situation.—A joint meeting of the Trustees and Alumni Committees was held subsequent to the November meeting of the Board of Trustees and while considerable progress was made no definite conclusion was reached. In consequence there was no new report submitted to the Trustees' meeting held in New York on December 28. The Trustees, not finding themselves in a position to proceed to the election of a president, deferred action, awaiting a further report from their committee. As Dr. Drinker's resignation was to go into effect December 31, 1920, the following resolution was adopted:

"Resolved, That effective January 1, 1921, Dr. N. M. Emery as Vice-President be and hereby is given full executive authority to conduct and direct the affairs of Lehigh University."

The Board of Trustees also adopted the following resolutions in regard to the retirement of Dr. Drinker from the Presidency:

Resolutions of the Board in Regard to Dr. Drinker.

"RESOLVED, That Dr. Henry Sturgis Drinker's resignation as President of Lehigh University be and hereby is accepted as of the 31st day of December, 1920;

"BE IT ALSO RESOLVED, That he be elected President Emeritus of Lehigh University and Honorary Trustee.

"NOW BE IT RESOLVED, That we, The Board of Trustees of Lehigh University, accept Dr. Drinker's resignation with profound regret and only in deference to his wishes, set forth in his letter of April 23, 1920, and in his expressions at this meeting.

"RESOLVED FURTHER, That the Board of Trustees desires to record its high appreciation of Dr. Drinker's remarkable talents so constantly outpoured, ever since his graduation from Lehigh University in 1871, for the benefit of his Alma Mater; his love and devotion so unselfishly shown when fifteen years ago, he relinquished his personal ambition, for the continuance of a distinguished legal and technical career, to assume the Presidency of Lehigh University; his marked achievements in securing from the Commonwealth of Pennsylvania, from friends of the University and from the Alumni, appropriations and gifts, enabling the University to continue operations, not only in the dark days of

past history, but above all by his leadership, his indomitable energy and efficient management to advance our beloved Lehigh to an enviable position among the leading institutions of learning of our country. We also desire to pay tribute to his splendid organization in Faculty and teaching force; his ability in securing the respect and cooperation of Lehigh men; his able executive organization, functioning so perfectly during his administration, all of which combine to hand down to posterity a heritage of which we, the members of the Board of Trustees, are justly proud.

"RESOLVED, ALSO, That we, The Board of Trustees, cherish as Trustees, and as individuals, his kindly advice and delightful personality which, fortunately, by today's resolution, we shall continue to enjoy.

"RESOLVED, ALSO, That as Honorary Trustee, he be given the right to vote as Trustee."

Class Organization and Action.— We have devoted a large part of this issue to the classes. This was done designedly. We want to make it increasingly evident to each alumnus that only by class organization and class action can an alumni body function successfully. Listen to this statement from Paul G. Tomlinson, Business Manager of the *Princeton Alumni Weekly*. He is talking of class subscriptions:

"Our alumni are now converted to the plan. Many objected to it at first but are supporting it now. It is accepted as a matter of course. From 1890 to 1920 there are only three classes not subscribing. This is because class officers are not on the job. In this scheme we are largely dependent on class organization. There are classes of course which if they do not elect a secretary who is a live-wire, give us a hard time of it. But in most cases the officers are elected for their ability and not necessarily because of popularity. We put this plan in operation because we felt the official organ should be in the hands of every Princeton man. It has tied men up to the University and increased their interest. It has been a good thing. In my class, for instance, every member is supposed to pay \$20 a year. Out of that comes the subscription to the *Weekly*, reunion expenses, mid-winter dinner, and class record book and all incidental expenses. About 60% pay the sum. There are 340 members in my class and last year we collected over \$4000.

"Each class keeps a record of its members' addresses and two weeks prior to the

date of mailing the first issue of a new year, sends in its list together with a check to cover the full payment. Secretaries wishing to include with their roll alumni listed with other classes in the Alumni Directory or omit names and have them charged to other classes, may do so by arranging with the secretaries of such classes."

Now that is what I call class organization, and our BULLETIN guarantee scheme is merely the first step taken in order to try and bring about such class organization among our classes. If properly handled, most if not all of the guarantee funds raised by the classes will go back into their treasuries finally and be a nucleus around which to build larger funds for reunion and other class purposes.

We had intended to send this issue only to such men who had subscribed individually or who belonged to a class that had guaranteed the subscriptions of all members. But so many classes are working on this guarantee fund that we will send this number to all alumni and will not cut our circulation until the February number.

College Athletics—We have spoken before in these columns of the abuses that have grown up in college athletics and of the necessity of facing the facts squarely if any remedy is to be found. These abuses have not only given college teams a tinge of professionalism but have done a far worse thing, that is, promoted hypocrisy and given our youth a distorted idea of the value of success no matter how obtained. No one college is especially to blame for the growth of practices which all unite in condemning in the "other fellow." But mighty few of them are free from following them to a greater or less extent. And the worst that any one of them does is attributed to all. Why not face the issue honestly and squarely and say openly, "This we will do and this we will not do," and get rid of this lying practice of making rules that are not enforced and in some cases cannot be enforced? Elsewhere in this issue there is a plan outlined by which we hope you will read, think over and discuss. This plan means just what it says. No more or no less. A plan such as this, if adopted by the colleges, would eliminate proselyting players belonging to other institutions, would do away with inducing a man to come to college because it's easier than working and would put an end to bidding for star players. At the same time each college would get the material which it is entitled to. Teams would be the result of hard work by undergraduates and alumni. Boys who play on them would be of the right caliber. The professional baseball player looking for an easy berth and the prestige a connection with a college gives would be eliminated. For these chaps are not looking for a loan based on their needs and character. They are looking for outright gifts.

And the most important part of the plan

is that you would only get such men as were convinced from personal contact with alumni, undergraduates and the college itself that "here is the place of all others to which I wish to go." Neither money inducements nor the lurid exaggerations of a paid "scout" would have swayed their judgment. Men secured by the latter plan are apt to be "kittle cattle." The following from the *New York Times* of November 1, 1920, shows what I mean:

Football men should listen closely to Romeyn Berry, who holds the responsible position of Graduate Manager of Athletics at Cornell. Speaking from the secluded fastnesses of Ithaca, far away from the madding world of football, Mr. Berry issues a warning that betting is a serious menace to intercollegiate football. He believes that the recent baseball scandal in Chicago is an object lesson that illustrates the natural and inevitable consequences of gamblers making inroads into sports, college or otherwise.

There is little doubt that Mr. Berry's admonition is timely and merits serious consideration. The polluting of football by the professional gambler would be a calamity of the first order. It would mean that every sport would come under public suspicion. If the country's outstanding amateur sport is not to be free from the invasion of gamblers, the public can scarcely expect anything better of those sports in which professional athletics compete.

In his warning, however, Mr. Berry does not go deep enough for the remedy. It will hardly be enough to stop the act of laying wagers. A thousand orders might be issued at Ithaca against the Cornell students betting on their eleven, and the gambling menace would not be removed. The suppression of actual betting in the grandstands is a method that has been tried by nearly every major league baseball club, but it did not prevent professional gamblers from "fixing" the world's series of 1919.

It would be better if the graduate managers themselves took action. Mr. Berry, for instance, might have warned his fellow graduate managers that the practice of making handsome offers to young prep school stars is a relic of the other and less desirable days of football. He should tell them that arranging soft jobs and sinecures for these young stars and seeing that they "get through" college all right, is in itself a blow at the integrity of football. He should also tell them that "rushing" a football star off his feet and into a position on a college eleven constitutes undesirable tactics.

If player Blank is known to be getting through college by means of effective aid from the athletic association, professional gamblers can hardly be blamed for believing that Mr. Blank would be open to another generous offer. Or if a player has been talked into going to a certain college through the enthusiastic arguments of a hard-working "scout," there is conceivably some reason for believing that he may be talked out of doing his best on the playing field.

The baseball scandal developed because several players were of weak character. And it is not hard to believe that young football players who accept offers from colleges or who occupy soft jobs provided by the athletic officials or who even go to a certain school, not from an honest preference, but because that are to play football, are not true amateur sportsmen. They are the weak link that the graduate managers should repair.

This plan is for discussion. It may not be the right one. But if college sport is to live and keep the place it should have in the estimation of the public and if colleges are to retain their self-respect, something open and above board must succeed the present practices which are making college athletics a "whited sepulcher."

How About it, Lafayette?

In the light of what happened last year when Joe DuMoe, the star end who won the Lehigh game for Lafayette, was ac-

cused in the public prints of playing professional football with Akron on Sundays, under the name of Sweeney, while playing on Saturdays with Lafayette, the following from the *New York Herald* of December 7, 1920, is interesting and pertinent:

"In our work of compiling our All-Eastern teams we have been getting opinions from coaches and players on certain men. From Lafayette we got a little note boosting the prowess of Mike Gazella, the back—boosting his right to a place on the All-Eastern in a rather peculiar way. Read this:

"Gazella was the star of the victory Lafayette achieved over Lehigh. He scored two of the team's touchdowns, one coming on a sixty yard run that is still the chief subject in Lafayette's gridiron gossip. In other respects Gazella also distinguished himself against Lehigh, in fact one

of the Lehigh coaches is quoted as having said but for the work of the coal region boy the Bethlehem team would have had an equal chance of defeating its old football rival.

"Gazella gained his early football and baseball start in Lackawanna County. Several years ago he played with Scranton in the New York State League as a second baseman. Later he went to Mansfield where he starred in football and baseball. He went to Lafayette from Mansfield, and last year was a baseball star under Bill Coughlin. Gazella pitched for the Duplan Silk Mill team of Dorranceton, in the Wilkes-Barre Industrial League two years ago, and last year played with Olyphant in the Inter-County League in Scranton, under the name of "Mike" Dougherty. Several other college players were in the same league under assumed names."

"We wonder do the Lafayette authorities realize that they had this celebrity in their midst? Or is the 'boost' wrong in its details."

Lehigh Alumni Memorial

Frank R. Dravo, Chairman of the Building Committee, has been in communication with the members of his Committee and with the Architects and the decision was reached to not call for bids before March 1, 1921. Frank figures that we have saved at least \$50,000 by postponing building operations and that by waiting until spring he is confident this saving can at least be doubled. But with building operations planned for next spring, it behooves everyone to clean up their subscription as soon as possible. Also it is well to bear in mind that only \$380,000 has been subscribed and we will need \$120,000 more if the building is to be properly endowed.

Some men are evidently thinking of this even though there has been nothing said of late about new subscriptions. We are glad to report the following men who have sent in unsolicited subscriptions:

A. E. Lewis, '88.

C. H. Thompson, '94.

H. M. Crawford, '95.

(Second subscription.)

H. M. Cressman, '95.

W. C. Kline, '05.

F. A. Henry, '06.

A. J. Hoff, '07.

R. D. Bell, '08.

(Second subscription.)

J. C. Barth, '08.

D. R. Lowry, '11.

Chas. Koch, '11.

Frank Fahm, Jr., '12.

H. L. Rooney, '13.

A. J. Kutzleb, '13.

C. R. Wylie, Jr., '13.

E. B. Snyder, '14.

E. B. C. Goyne, '14.

A. S. Blank, '15.

L. M. Levin, '16.

H. J. Sloman, '17.

Chas. Graham, Jr., '17.

It will be of interest to everyone to know the present status of our fund. On December 24 it stood about as follows:

Total subscribed	\$ 379,537 00
Due before January 1, 1921.....	325,000 00
Received to December 24, 1920.....	\$ 255,203 00
Interest received and accrued, approximate.....	9,000 00

Total Receipts\$ 264,203 00

Campaign Expenditures\$ 7,030 11

Payments to Architects..... 8,494 15

Total Expenditures\$ 15,524 26

Balance available for Building Purposes, approximate..... 250,000 00

This money is invested as follows:

Received in Securities.....	\$ 25,150 00
Bought \$26,000 Victory Notes at 96½, plus accrued interest.....	25,637 04
Bought U. S. Treasury Certificates, 6%.....	43,000 00
Bought U. S. Treasury Certificates, 5½%.....	20,000 00

Balance is in E. P. Wilbur Trust Certificates, at 4½%.

Our Treasurer put in a bid for the current issue of 6% Treasury Certificates with the intention of investing a further amount in these if he can get them at par, and failing this, will secure 5½% certificates, or Victory Notes.

A RENAISSANCE IN LEHIGH ATHLETICS

New Plans Discussed at Big Football Dinner

THE UNDERGRADUATES BLAZE THE WAY—WILL THE ALUMNI FOLLOW THE TRAIL?

Just previous to the war Lehigh athletics were in splendid shape. In six years we had suffered only one defeat from Lafayette in football. The 1917 baseball team was acclaimed by many critics as the best among the colleges. In the same year Lehigh won for the second successive time the lacrosse championship of the Southern Division. In wrestling we won second place in the Intercollegiates, and in basketball completed one of the most successful years in Lehigh's history. Even in track, which is not our stronghold, we took fourth place in the Middle States Intercollegiates. Then came the war and intercollegiate contests became of no importance except for the conditioning of prospective soldiers. In the fall of 1919 college athletics came into their own again and Lehigh has worked hard to hold her place with her old rivals. But the results are far from satisfactory. It is impossible to close our eyes to the fact that the material isn't here to make teams. When a college of a thousand students has to put a football team on the field averaging less than 160 pounds there is obviously something wrong. And the trouble is not hard to find. Other colleges are combing the interscholastic world for promising material and their success simply means that boys who would naturally gravitate to Lehigh go elsewhere. Either we must content ourselves to play the team of colleges half our size or else bestir ourselves and make sure that our entering classes contain a fair share of the athletic material which each year enters the colleges of the country.

All this was recognized a year ago by some of our alumni and a few of our students, but it took the decisive defeat of our team on November 20, last, to thoroughly wake up the easy-going majority. As they watched our team of bantams struggle to hold the sturdy Lafayette team they realized that there is a limit to the strength of a man, no matter what his spirit may be. The question was asked, "Why don't Lehigh put a heavier team in the field?" and the answer was, "Because we haven't got the men." "But," you say, "every other college I see has strong, husky-looking material." Well, that's just the reason why we haven't. The other colleges are not waiting for it to come to them. They are heading it their way and some of it is material that should naturally be ours.

How are we to get our share?

At the big football dinner on Saturday night, December 11, one hundred and fifty Lehigh men, graduates and under-

graduates, gathered at the Kurtz restaurant to do honor to the team and to settle, if possible, the answer to the above question. Every dormitory section and every fraternity sent two representatives, so that the undergraduate body seemed at last to realize that on their shoulders rested the real responsibility for the character of Lehigh teams.

Lathrop Bevan, '21, President of the Senior Class and Chairman of the Athletic Committee, presided. The first speaker of the evening was Walter R. Okeson, Executive Secretary of the Alumni Association, who spoke as follows:

In the three and one-half years I have been at Lehigh there is one thing that has impressed me greatly. It is the fact that among the undergraduates there seems to be no sense of responsibility for the success or failure of our teams. The same thing is largely true of our alumni but there is a much greater excuse for them. They did their part while in college and are now far removed from the scene of activities. You can hardly expect them to feel the sense of responsibility they felt while in college. And yet they really have made more effort and done more to bring success to our teams than the undergraduates themselves. For some reason, which I cannot define, the undergraduate sentiment seems to be, "We have put this matter in the hands of the Athletic Committee and it is up to them to deliver the goods." The Athletic Committee employs coaches and if the teams are not successful the next step is to say, "Our coaches are no good. Let's get others." It never occurs to us to say (and by us I mean alumni and students), "We are no good and that is the reason we do not have good teams." And yet in the final analysis that is the answer twice out of every three times.

There are two ways for a college to have successful athletics. The first is the easiest way and has been too generally successful to make for good amateur sport or I might say, "make for sport" for, frankly, professional athletics is a business and not sport. Sport is something a man participates in for pleasure and not for gain. It pertains to the spirit of a man and not to his pocket book. And unfortunately this easiest way to get a good team is by buying it. It stands to reason that a man who makes a business or a semi-business out of a game will generally play it better than the amateur who plays for sport. He gives more time and attention to it, and to quote the old saw, "Practice makes perfect." When a college is beaten by its rivals the natural tendency is to try to get a better team. Instead of each supporter saying, "I will give so much service," he says, "I will give so much money," and if all you have with which to make a team is money there isn't much to do except to go buy players. Having bought them you use them and waste no time developing the promising material that lies to hand in every college. Then your team wins the big game and you shout hilariously over your rival's defeat. A few days later it crops out that the man who won the game for you is a rank professional and then, if you have any sense of values whatever, every bit of the joy of victory is taken from you. For unless a victory is *won* of what value is it. If you merely *buy* a victory why waste the time in playing at all? Why not put the games up at auction and let the highest bidder be awarded the palm of victory?

The second way to secure good teams is a harder one. It is to make them for your-

self. It requires a carefully worked-out system. It necessitates coordination of effort. It requires a loyal, hard-working student and alumni body. It requires courage, it requires stamina, it requires brains. Strangely enough it requires an occasional defeat. For a victory has got to have tremendous value to the workers in order to keep them everlastingly at it. And nothing so enhances the value of victory as the sting of an occasional defeat.

Now, what are the mechanics of making a team. Well, first you must have the material. And that means that the boys in college who have come here from high schools and preparatory schools must keep in close touch with these schools, know what they have in the way of good players and steadily preach Lehigh to these players. The alumni who are scattered throughout the country must also keep in touch with the schools in their section and make known to the boys attending these schools the value of a Lehigh education and the spirit and prowess of her teams. You must constantly have the personal touch. The boys must become acquainted with Lehigh and Lehigh men long before the time comes for them to go to college. If they know Lehigh as she really is there is no danger that we will not get our fair share of good athletic material.

Having secured the material the next step is to know you have it and then to see to it that it comes out for the teams. Then you must teach it and develop it, making sure that no boy is neglected but also making sure that no friendship, family connection, fraternity affiliation, or anything else, results in giving a man more than a fair chance. The members of the squad and their friends must be ready and willing to sacrifice themselves for the good of the team. The same thing is true in the election of a captain. It is a great honor to be the captain of a team and it is right and proper for every man who plays to aspire to that honor. But a captain should not be elected because of personal popularity. He should be chosen because he is the best-fitted player for the position. The hardest thing I ever did in my football career, and yet the thing of which I am proudest, was to decline the nomination of captain of a Lehigh team because I believed that the man who had led us during the season that had just closed deserved a reelection and that the team would have a better leader in him than in myself. I was too young, being only nineteen years of age, and fortunately had sense enough to know it.

Another necessary thing is to conserve the material after you get it. Lehigh is hard to enter, but it is harder still to remain. Every

man should be encouraged to do his best in his studies. Another thing, I am proud of the fact that a large number of Lehigh men work their way through college. The men who have to struggle with insufficient resources should be helped in every legitimate way. But not in any way which will lower their self-respect or impair their amateur status.

If everyone works, and works hard, to the same end, we can make teams which will not only win success but which we can take great pride in because they are truly *our* teams. We are proud, and rightfully so, of this year's football team. They were probably the lightest college team on the gridiron during the past season. They lacked great experience and had no stars to carry the burden of attack or defense. But they truly represented the spirit of the college and of their coach. Against the greatest odds they fought their way through a schedule as hard as that faced by Yale, Harvard or Princeton and suffered only two defeats. Were these boys all coming back the experience of this year, plus the weight that a year's growth should bring, would make them material of the best. But unfortunately a number of them graduate. Those who remain form a splendid nucleus and if our entering class next year brings good material to us we can face the future with hope.

The other day I was in Roanoke, Va., and while there I saw this story in a Roanoke paper. A dinky doughboy on outpost duty in France saw approaching him, creeping up through the long grass, six German soldiers. Grasping his rifle tighter he began to pray, "Oh Lawd, I don't know how you feels about dis yere confliction. I'm a needin' of yo'ah help if you feels you can give it. But if you is too proud to fight just cast yo'ah eyes on dis boy from Alabam' and watch him make dis worl' six points safer fo' democracy." And that, I take it, is the spirit of this College tonight. We see next season coming with Lafayette approaching to attack us. We're asking for help from our alumni and friends, but in case they are too proud to fight, all we say is for them to cast their eyes on this undergraduate body and they'll see it make this world a considerable pleasanter place for everybody—except Lafayette—to live in.

And now I want to offer to you for discussion a plan or system which if adopted and honestly and earnestly followed will, I think, give us the results we want. What we want is strong, successful Lehigh teams. But in any case they must be *Lehigh* teams. They must belong to us and we to them. If we haven't got guts enough to make a team we at least have too much pride to buy one.

PREAMBLE

The applicants for entrance to Lehigh having so increased that the college is unable to accept them all, it becomes increasingly necessary that a real effort be made by students and alumni to secure the best material possible to fill our future limited Freshman classes. With this end in view and especially with a desire to obtain well rounded men who will shine not only in the class-room but on the athletic field, on the musical and dramatic clubs, on the staffs of the college papers and in fact in all varied activities of college life, we have formulated the following plan to secure and retain as large a number as is possible of such students. This plan is to be submitted to all Lehigh clubs and to the college and alumni body at large for discussion.

PLAN

1. Every year each Fraternity and each Dormitory Section is to look up at least one promising High School or Prep School Athlete. They are to visit him at his school and if they find him interested in Lehigh, they are to invite him to visit our college as their guest. If possible this should be done from a year to two years in advance of the time he is ready for college, so that he can make several visits to our college and determine whether or not it appeals to him as the place he desires to matriculate, also to enable us to determine whether or not he is the type of student we desire to enter Lehigh.

2. Each Alumni Club is to inaugurate a system whereby the boys preparing for college in the schools in that locality can be carefully looked over and when a boy is found who seems to be of the type desired, an effort is to be made to interest him in Lehigh. The first qualification is to be character, the second, scholastic attainment and third, athletic ability or some other quality which will tend to make him a leader in undergraduate life. In some way he must stand out from his fellows. These boys should be brought to Lehigh by the Alumni of these clubs and given a chance to see and taste of the college life in advance of making a decision as to the college to which they will go. The undergraduates are to help him in the entertainment of these young students so

that they can get a real idea of what Lehigh undergraduates are like and what Lehigh stands for.

3. No student at other institutions of collegiate grade should be asked to attend Lehigh. After a man has chosen his college any subsequent decision as to a change should rest entirely with himself.

4. If any preparatory or high school boy expresses a desire to attend Lehigh but states that he is unable to do so without help, a careful investigation should be made to determine if he is actually deserving of aid. If he has a real ambition for a college education and if he is the type of man we want at Lehigh, he will wish to stand on his own feet and not rest under obligations to anyone. To such a man it is legitimate to loan money to pay for tuition and such part of his living expenses as he is unable to take care of by his own resources and individual efforts. Such a loan must be covered by his note, to be repaid from scholarships won during his college career or from his earnings after leaving college. If any man to whom such credit is extended fails in his studies, he should at once forfeit any claim to further credit also his character as shown by his actions at Lehigh should govern the extension of credit to him.

5. Loans such as are covered by the preceding paragraph can be obtained to the extent of the funds available from the Core fund or Frank Davis fund, which are administered by the University and the interest of which is loaned to needy and deserving students. The boy's need, his character and his scholastic ability are the only factors entering into the grant of such a loan. Other funds should be created by the Alumni from which needy boys can secure loans under similar conditions as the funds mentioned above are limited in amount.

6. SCHOLARSHIPS.—Each one of the Alumni Clubs should create one or more scholarships to be won by the students having the best all-around records during Freshman, Sophomore, Junior and Senior years. Scholarship, athletic ability, activity and influence in all branches of college life are to be considered. The award should be made by a joint Faculty, Alumni and Student committee or by a committee of the club creating the scholarship. These scholarships should be in amount at least sufficient to cover tuition thus making Asa Packer's ideal of free tuition possible at least to a small number of our students. If awards of such scholarships are made to men who have been obliged to borrow money for their college expenses, such loans must be repaid in so far as the funds from the scholarship will permit before the student winning the scholarship can again become eligible to receive further loans or compete for subsequent scholarships.

7. The College, the Fraternities and the business men of the city will be asked to aid in supplying employment to the men who are obliged to work their way through college. In this way these students can keep down their indebtedness to a minimum.

8. Hustling committees to be formed in each class under the chairmanship of the class president to comb over the athletic material in the college and make sure that all such material reports regularly for practice in the sport or sports for which it is specially fitted.

9. An effort is to be made by the Athletic Committee to secure an agreement between ourselves and the colleges with whom we compete to adopt a rule prohibiting Freshmen from playing on Varsity teams. When this has been done the Athletic Committee will be asked to support Freshman teams in all major sports.

10. In order that all material reporting for teams be given a thorough workout and a full opportunity to develop latent ability, sufficient coaches should be provided to enable each man to receive a fair share of attention. Schedules should be arranged for the scrub teams as well as the Varsity, this being made the especial duty of the assistant managers.

The next speaker was Tom Keady, our football and baseball coach for the past nine years. Tom made a splendid speech in which he did not mince words but continually struck the nail on the head. He recalled the fact that for years Lehigh had struggled to get out of that slough of despond into which we sunk athletically during the dark days of our financial troubles when it looked as though Lehigh might have to close her doors. He warned his hearers that they must choose between returning to that low level of athletic standing and the alternative of hard, consistent, organized effort. He told of a football dinner at Dartmouth in the days when he first made the team and of a speech by "Ed" Hall, Dartmouth's representative on the Football Rules Committee. Hall con-

gratulated the team on the "glorious defeats" of the past season. Then each player was called on and when it reached Tom's turn his only remark was that "he was tired of hearing of glorious defeats and what he would like to taste was some glorious victories." "And that," continued Tom, "is what I think Lehigh wants now. I have never coached a team of which I am so proud as I am of this Lehigh team of 1920. But the fact remains that they were fighting against desperate odds all season long. Lehigh cannot expect to win unless she gets her fair share of material. I endorse this plan of Okey's, and while I do not think we are ready for the Freshman rule yet I will be only too glad to see it go into effect here when our competitors are also willing to adopt it. I am for every

effort being made to secure the adoption of this and every other rule that will foster clean college sport. Right now Lehigh is being asked to play college teams in base-ball in whose ranks are good minor league professional ball players. In many cases these professional baseball players are good football players too and we meet them not only on the diamond but on the gridiron. It is absolutely unfair to ask young college boys to meet these seasoned players on equal basis. If the Athletic Committee is ready to protest such men I am ready to furnish the evidence. I favor keeping our own teams clean and demanding that our rivals do the same. We have a handicap which we can never overcome and don't want to overcome. And that is the fact that our standards of scholarship are high and every five weeks during the year those standards are applied and if a man fails to live up to them he is dropped from college. The result is that every man on our teams must be not only a bonafide student but a student of good grade. We are proud of that fact and if we cannot have good teams without lowering Lehigh's standards then certainly I for one don't want them. But that we can have the best teams composed of high grade men is proven by the past. And we can have them in the future if everyone, be he alumnus or undergraduate, is willing to recognize his responsibility and shoulder his share of the load."

The team then retired to elect a captain for the coming season. On their return to the room this year's captain, "Buzz" Herrington, announced the election of Raymond T. McCarthy, '22, of Easton, Pa. McCarthy was left guard on this year's team and played through every game, being only relieved once for about five minutes in one of the early games. It is quite a coincidence that a schoolmate of his in the Easton High School, Joe Lehecka, has been elected captain of the Lafayette team. Herrington spoke of forming a Varsity or "L" Club, composed of all graduates and undergraduates who have won the "L", and promised that steps in this direction would be taken in the near future.

And then came "Bosey"! And certainly he was in rare form. If ever he deserved the sobriquet of "the human dynamo," he deserved it that night. "I don't agree with Okey's plan in all particulars but I am open-minded and am ready to subscribe to it. What we want at Lehigh is to secure representative

men and I believe this plan will get them. I don't think we should expect too much of our boys, however. A man who is playing football and pursuing a course at Lehigh hasn't much time during the season for earning money, and if he is a good student and a boy of character and needs help he should get it. Don't make the load heavier than he can bear. Get the right type of men—men like Pazetti, Sawtelle, Freddie Green, Wysocki and dozens of others I can mention—men who will stand on their own feet and who only ask a chance and who if given it will make good. Don't forget the poor boy likes to play games just as much as the rich one, and deserves a chance for a good education if he is honest, ambitious and studious. My sympathy goes out to these boys for I was a poor boy and had to work my way through college. My athletic ability helped me in securing an education. Make sure that no boy gets a loan who is not in real need of it. Make sure that he only gets the minimum he requires. Make assurance doubly sure that his character is such as to warrant extending credit to him, and finally that his ambition and brains justify helping him in securing a college education. Having done this then don't hesitate to help the man who seeks to get a Lehigh degree.

"You undergraduates must bear in mind that the success or failure of this plan depends largely on organized effort—on cooperation. Students and alumni must close up, shoulder to shoulder, and give the best that is in them if this plan is to succeed. And unless you prove that you are in deadly earnest you cannot expect the alumni to give you the cooperation your efforts will require for success."

The final speaker of the evening was H. R. (Hop) Walters, '03, who spoke for the local alumni. After all the heavy fireworks this speech of Hop's, in lighter vein, provoked the laughter which was needed to relax a little the tension of what had been a mighty serious evening. And yet through it all ran the same vein of high resolve that featured the whole evening. He suggested that all that students and alumni needed was a realization that the whole measure of success could easily be obtained if they only awakened to the power of coordinated effort in carrying out a systematized plan. "It is no use brooding over disaster. Realize your possibilities as did your ancient ancestor."

"There in a primal forest lair, astride an ancient bough,
In melancholy frame of mind he sat and wondered how
To curse with greater gusto and relieve his feelings some,
For Mr. Pithecanthropus was feeling rather glum.

"The banyan crop had failed that year; his wife had gone away
With an ugly, big orang-utan from over at Bombay,
She wouldn't crack his coconuts or comb his back for fleas;
And so his anthropodial heart was sorely ill at ease.

"He wasn't a philosopher; his half-soul couldn't know
That joy is only inverse grief, and pleasure, painted woe.
So through the torrid tropic day and in the tropic night,
He nursed his aching feelings and bewailed his weepful plight.

"But suddenly a mighty thought exploded in his gray;
So he broke him off a crooked limb and started for Bombay.
And the evolution processes advanced a mighty step
When your ancestor discovered that all he lacked was PEP!"

And in conclusion Walters spoke seriously of the need for adhering faithfully to this plan which had been outlined. It is a big step forward to lay your cards on the table and openly declare yourself. But make your practice square with your declared principles. If we are going to lead the way in putting our athletics on a plane of no hypocrisy and of square and open dealing let us do it in a manner that will give us a place on that best of all schedules, the schedule where colleges compete for that high prize—the respect, esteem and admiration of their opponents."

THE AFTERMATH

When the dinner finished the work began among the undergraduate body. These boys are in deadly earnest. Names of scholastic stars, with their schools, home addresses, etc., were forthcoming from scores of students. These names were arranged alphabetically and on the following Wednesday every student group sent a representative to the gymnasium where a mimeographed copy of the list was given him. Each name was discussed and all the information available was uncovered. With these lists the representatives returned to their respective groups and there the man or men from the home town or vicinity of the home town of each school-boy volunteered for the service of meeting this boy during Christmas holidays and becoming acquainted with him. The idea was to discover his preference and if he seemed to be the type of man who could successfully meet Lehigh requirements to bring him into close touch with Lehigh men and the college itself so that he can judge for himself of its charms and advantages. The whole college has gone to work with vim and vigor and it now remains to be seen whether our alumni will work also. If our college, when brought to the notice of the scholastic world, cannot attract a fair proportion of the athletes of the schools we must then content ourselves with mediocre teams. But we have no fear of any such result. Our beautiful campus, our splendid buildings, our wonderful athletic plant, our deservedly great reputation in educational circles, and last, but not least, the character and success of our alumni, all give us a drawing power that it is hard to overestimate. We do not fear, we invite and welcome comparison with other colleges. We have nothing to lose and everything to gain by such a comparison. We only want such boys who, having made the comparison, make

Lehigh their first choice. And these will number enough to give us what we are not now getting, namely, our fair share of the athletic material of the schools.

Perhaps we can best close this article by quoting the editorial from the student paper, the "Brown and White." It shows the spirit in which the college body has adopted this new plan for bettering Lehigh athletics. These youngsters are starting to play next year's games now. Read this and decide if you will let them fight the battle alone.

Defeat does one of two things. It either breaks the spirit or awakens the spirit. Last year Lafayette came to Bethlehem and beat our good team, this year we went to Easton where they beat our better team. The chances might have been that this sowing of salt in the open wound would cause Lehigh to go stumbling into a protracted slump that would drag us down from our very decent ranking in American college football, but it will not because Lehigh's spirit has not been broken but awakened.

Saturday night's banquet and the speeches that followed were an inspiration to all and they showed the way to undreamed of possibilities in better Lehigh football. For years it has been our policy to leave the building of a team to the coaches, the student body falling in behind. The process has not been a failure by any means as the gradual climbing of Lehigh in football circles to her present high status shows. The possibilities, however, with the student body and alumni working toward next year's team, in conjunction with the coaches and Athletic Committee, are unlimited. At that banquet Saturday night with all the representative men solemnly determining, as we all will Friday, to do just this thing we cannot help saying that Lehigh's spirit was not broken but just awakened.

This meeting was, if anything, an open declaration of our purpose. We are out to win all games, but especially to beat Lafayette. In so doing it is our purpose to be as open and frank as this meeting was open and frank. We propose to get good athletes interested in Lehigh and let them catch the spirit of the place and to do so we are all going out of our way many times if necessary to bring them here. By good athletes we mean good all-around men who will after their four years here leave records like those of Pazetti, Sawtelle, Bailey, Wysocki, etc. This is the new plan mentioned above. It is something that should have been done long ago, but it took two successive defeats by Lafayette with more looming in the distance to bring the fact home to us that we must all stand on our feet and fight. It is good to know that when the plan was brought forth Lehigh was not found lacking.

The result of this birth of new spirit is going to be better Lehigh teams in all sports for all time. It is not going to enjoy an ephemeral life only and die on the evening of November 19th next—but it is going to continue and grow until Lehigh athletics are on a recognized parity with the acknowledged best. Last week a literary club at Lafayette likened Lehigh to the amoeba, the lowest form of animal life. It was in a spirit of jest, of course, but the joke is on them because that same amoeba will beat them next year. The seed is sown for a wonderful Lehigh team and it has already begun to sprout. Seven thousand and more Lehigh men are tending to its culture so that by next year it will be strong enough for battle. Watch Lehigh, everybody! We are out to win with brand new spirit which, by its nature, draws strength from all.

ECHOES FROM "LIFE AT LEHIGH IN THE SEVENTIES"

The first such echo was a note from Dr. Drinker stating that he thought the incident of the cow being transported by night up the stairs to the chapel so that she might be present at the morning service took place when the chapel was in Christmas Hall and not in Packer Hall as indicated in our article in the December number.

Then followed the two letters we reproduce, which are both extremely interesting. Both are of historical value, the one of Zimmele's covering a most interesting point in regard to the tower of Packer Hall, while that of Professor Williams' bubbles over with the fun of old time reminiscence.

Dear Mr. Okeson:

Sorry "space forbids further quotations" from Griffith's Scrap-Book, with your editorial notes. One of the notes, page 6, ALUMNI BULLETIN, December, 1920, is in error.

The original tower of Packer Hall, as veteran grads well remember, was actually as shown in the cut, page 5, which is, therefore, a valuable illustration. Owing to the weight of the structure, the tower started to break away from the main building, like the recent avalanche on the southern slope of Mont Blanc, but more sedately. Its imposing superstructure was altered on this account by the architect after many years of service, as well as of grandeur. It had served for meteorological observations, and was considered an architectural masterpiece in design. In its then lovely grandeur and height it was frequented by many visitors for its spacious view of "old Northampton" County, bounded in by the Blue Mountains with their interesting gaps, Lehigh, Smith's and Delaware Water Gaps.

In the fourth story of the main building were dormitories (of the great Professor of Mathematics and Astronomy, only, I believe).

Suggest that "Jim" Cunningham, '79, or "Will" Bradbury, '80, might enlighten us as to "Chapel Events" in the "Leave-it Era," as the mock programs termed it.

Yours Etc.,

C. F. Zimmele, '87.

Dear "Okey":

Anent Mock Programs, you should add the atmosphere of expectation which filled the hall when the audience filed into the room where commencement was held. This was the Civil drawing room, with entrance on the west entry, and the stage built up against the doors at the east end.

The ushers were Juniors, and they were always fair and impartial in giving the regular and the mock affairs to those who came in.

I recall my own duties in that line and the whispers of Rev. Dr. Whitehead

(now Bishop of Pittsburgh), "Where's the Mock Program?" as he came in and wanted the antidote to sleepiness induced by poor ventilation and a senior class let loose on a suffering public. Remember! This was generally one of the hot days in summer.

The trustees and faculty attended in a body. "Devoted men!" you say, and their action a lesson to modern faculties. But modern trustees and faculties do not sit on a platform backed up against those swinging east doors of that drawing room. They were carefully oiled previously, and did not squeak. The careful observer might have noted here and there, in regular order, vacancies for short periods of time in the serried ranks of Trustees and Faculty, and the return of the absentees—and generally using a handkerchief to remove all traces of absence. Even our kind and honored Founder found strength to make the pilgrimage to the shrine which yearly attracted so many devotees.

It was in the south-east room of the basement of Packer, where Kreider had his machine shop, and where he made the physical apparatus for Prof. Harding, uncle of Dicky Davis, and a gentleman after God's own heart, who devised and paid for apparatus, as university funds were not forthcoming.

We must now take flight to Geo. Ren-nig's brewery along the best worn path on the Campus. Summer or winter made no difference to the bold mariners who negotiated the passage between Packer and the abode of George. One of the most skillful in sailing those stormy seas, rain or shine, was Ned Whetford, call-boy in the chem. lab. With his ammonia bottle under his arm, and the necessary change subscribed by the thirsty, he made his trips regularly and frequently (as cash held out). Even Instructor Bailey and Dr. Chandler assisted in this analysis by absorption.

But the crowning glory of George was his ability to make "Bock" hold out (two kegs of it) till Commencement. Tenderly those two kegs were transferred to Kreider's shop, and Kreider was the high priest at the subsequent ceremonies where Asa & Co. soothed their wearied brains after too much senior oratory. "But who," I hear you ask, "engineered and paid for all this?" Excuse me! That is a cat of another color. Suffice it to say that, after the above pilgrimage, there was much reading of Mock Program by Trustees and Faculty, and abundant smiles, and, occasionally, a sly dig into the corporosity of some fortunate one who had been hit by Junior shafts.

But one thing must be remembered. There never was a Lehigh man who did not love Asa Packer. He was never alluded to in a Mock Program. But he laughed at the jokes all the same.

E. H. Williams, Jr., '75.

"SAUERKRAUT AND KINKS"

*"The time has come, the walrus said,
To talk of many things,
Of shoes—and ships—and sealing wax—
Of cabbages and kings."*

My Dear Okeson:

If you will consult your recent records I think you will find that I paid my Alumni dues and subscription to the BULLETIN by check on December 4. My check was an immediate response to a dignified bill from the Alumni Treasurer. It occurs to me that there may be others of the Alumni who prefer this procedure to the more florid, salesmanship-plus, appeal of the enclosed.

Merely a suggestion.

Sincerely,

JOHN DONALDSON, '14.

12/13/20.

(The enclosed referred to was the green slip entitled "The Last Chance" which had been pasted on the outside of the BULLETIN of all those who had not yet answered our various appeals to pay dues and BULLETIN subscriptions. Donaldson's check had crossed his BULLETIN in the mail and so had this slip on it. I publish his letter so that I can also publish my answer to it. As you can see by my answer I thoroughly agree with him.)

December 14, 1920.

Mr. John Donaldson,
114 East 84th Street,
New York City.

Dear Donaldson:

You are quite correct. Many of the alumni do prefer a dignified statement of their indebtedness. I am one of these alumni myself. I particularly hate the florid advertising of the Association that it has been necessary to pursue. Of course this is not aimed at the men who are active members like yourself. It is done in order to build up the membership by trying every possible kind of appeal. The dignified bill from the Alumni Treasurer of which you speak was written and sent out by me at almost the same time that I wrote "The Last Chance." One was intended for our quiet, responsible members, the other for the hundreds who have willingly permitted these regular members to carry them year by year. When you realize that when I took hold here that only one man out of every ten was an active member and there were on the books between \$50,000 and \$60,000 in back dues you will perhaps appreciate the drastic methods necessary to dissolve this lethargy and secure enough support to make the work of the Association possible. Even last year in your own class there was only one man out of three supporting the association.

The campaign this Fall to secure more members was peculiarly odious to me and was only undertaken because of a sense of duty towards you men who had been carrying the whole burden. However, I promised myself it was to be the last campaign for membership I would personally undertake. I am willing to do the work here, which is heavy enough to take not only my days but most of the nights as well. But I am not willing to play the performing monkey any longer in order to secure new members or to awaken to a sense of duty those of our alumni who have never done anything for Lehigh.

In conclusion I am glad to say and you will be glad to hear that the membership of the association and list of subscribers to the BULLETIN has grown to such an extent this Fall that the future of the association seems assured. This is a great deal to say when you consider that only last year it was a question each month as to how the bills of the succeeding month were to be met. Whatever may have been the merits or demerits of the campaign methods used they at least secured the results,—results that were absolutely necessary if the work of the Association was to go on.

With cordial good wishes, I am,

Sincerely yours,

WALTER R. OKESON,

Alumni Secretary.

HAMILTON INSTITUTE

FOR BOYS

339 WEST EIGHTY-SIXTH STREET
NEW YORK

December 9th, 1920.

Dear "Okie":

The sample copy of the BULLETIN came a few days ago, and I am enclosing my usual check for the current volume. Owing to moving, the first copy did not put in appearance, for same reason, so if you have one hanging around, please send it along.

Funny thing happened, the afternoon that the second copy came, I had just shown an old gentleman, supposed to be the uncle of Ellis Hunt, Nu Deut, '11, living in Wilkes-Barre, temporarily embarrassed and desiring to get to Long Island, out of the door, in his pockets, two perfectly good, hard-earned dollars, (which I had had to borrow from my wife by the way—and have since repaid her). I was promised the return of the two spot in the morning's mail, but after reading the BULLETIN with the warning to New York Alumni contained therein, I have watched in vain, for the "morning's mail" in question, and Nichts Cumarous! (I do NOT teach German in school!)

Putting all joking aside, though, there should something be done about this old scam, for while it might not hit some as hard as it would others,—I among the latter, being merely an impecunious old pedagogue, still there should be an effort made on the part of someone to apprehend the shyster grafter, and send him back to Wilkes-Barre, or wherever he belongs. Had I received the warning sooner, I certainly should have made it "good walking to Long Island" for him. I am writing to the "What Do You Think" column of the New York Evening Sun, in hopes that they will cooperate with me in exposing this "player on the sympathies of friends of classmates," who is a mighty shrewd, clever worker, for he certainly had Brother Hunt's record down pat, and, in parting, promised to remember me most kindly to him at the family at Xmas time!

One other matter has been very much in my mind and I am passing it on to you for what you think it worth. As you know, Lehigh is very much in my thoughts at all times. I watch the papers for Lehigh news, (unfortunately there is very little), and talk Lehigh at every opportunity. However, my brother, who is a Brown man, Zeta, '20, has a decided "edge" on me in bringing the popularity of his Alma Mater to the fore, for they have a man there who visits the various "prep" schools in this section of the country and talks Brown to the graduating class. He has done so for two years with the result that this year's football team at Providence had three former Hamilton players thereon. (And Brown ranked considerably higher than Lehigh did, unfortunately.) This year there are no less than nine boys headed for Brown, to one for Lehigh or Lafayette. Haven't you someone to attend to this, I think, very important part of advertising—going after business, for it is good business to turn out good teams. Put it up to those in authority and see what can be done.

Yours for Lehigh, always,

"BOB" SHAW, '10.

LICK OBSERVATORY
UNIVERSITY OF CALIFORNIA
Mount Hamilton, December 3, 1920.

Dear Mr. Okeson.

Have you learned of the death of L. C. Taylor, of '89. He passed away in Buenos Aires—where he had been lately employed—in September, leaving widow and three children.

I engaged him, the year of his graduation, to join the National Observatory, at Cordoba, Arg. We were very intimate for four years, when I left the country. We made the trip to Chile, over the Cordillera, on mules, vacation trip, 1892. He left astronomy and went into railroad work—administration rather than construction—and when I left Buenos Aires last—1911—was doing very well. Died from some sort of stroke; was inclined to be stout, and was fond of good living.

He only returned once for a visit to this country, in the thirty years of his stay out there. His family were from Providence, R. I., I think. Married an Argentine.

Some of these details may be useful for the BULLETIN and your records. They are reliable. M. Rock, '69; J. M. Thome, '70, and C. W. Haines, '74, also were at Cordoba. Thome died there in 1908.

Very truly yours,

R. H. TUCKER.

The following letter shows the need of explaining how the University records are kept. Each man is credited to the class he enters with unless and until he graduates with another class, in which case he is credited to the class he graduates with. If for any reason a man does not get his diploma until after the first of the year following the graduation of his class he is credited to the succeeding class, even though he may not have taken a recitation or examination with them. All of which shows the need for the Alumni Association to keep a different set of records which will show each man in the class he claims as his own. But there is only one way to find that out, and that is for each class to furnish us with such a list. And they can only get it by getting in touch with every member who was in more than one class.

1136 E. Catherine St., Ann. Arbor, Mich.
December first.

Dear Okey:

In an idle moment tonight I glanced through the *Alumni Directory* and checked off all the men cited as of 1912 on pages 222 and 223 with their present addresses just out of curiosity, and then skipped on to the 1913 class. Maybe I am growing old rapidly since I've been married but the joy has been such that I doubt it. Anyhow I see men like Ray Hank in small letters and he beat me out of the Bethlehem Prep Scholarship by 0.1 point so I know he should have graduated. Al Spooner belongs to 1911. So does E. K. Ford, and also Clayton Bilheimer.

Again to reverse it, Clotworthy Birnie, E.E., and Allen Gerard Martin, E.E., were in Bill Esty's lectures with me for four years and I am sure they both graduated in '12, as did "Luke" Wright, C.E. Martin and Wright I am sure of absolutely. You can find out about Wright from the A.T.O. house. Martin was Psi U. Birnie was Theta Chi. Then it seems that Hadsall, W. F., listed in '13, Von Konecny, Rominger and Culliney, also all under '13 are 1912 men. Irving Samuels I know positively made the grade as an E.E. with 1912, and he is listed with '13.

It seemed funny how rapidly little memories and incidents rush back in reviewing the list, such as Herb Waddington's black eye when he argued with Raines, the cigar wholesaler; "Dauber" Lubrecht's incessant tardiness; the agile St. John, who unfortunately broke the legs and arms of most of his wrestling opponents; the time Russ Jones played "Hail! Hail! The Gang's All Here," as a processional in an Allentown church; the peculiar address, "Bachelor's Inn," that Burton Hartley, the world's champion grouch, now gives; the failure of many of our athletes to graduate, such as Hurst, Wolfram, Besson and "Runt" Rebert. I can see "Runt" yet, squirming through the line and lying on his belly, with his headgear over one eye, squint across to the sidelines to see how many yards our class team lacked for first down.

Tommy Hardcastle a ladies' underwear importer! Fritchman a justice of the peace, and Eber Cook a merchant! If one could only know a little ahead of time what the future held, or if there were only a board of efficiency experts to examine freshman and keep round pegs out of square holes, how much time and money could be saved. A good example is my own case—fully eight years after graduation, accepting a realalaried job as roentgenologist with a "group Clinic" in Boise, Idaho. And only three Lehigh men in the whole State! I'll send you my correct address later. I leave here by January first but White Haven, Pa., will always reach me.

Sorry about the Lafayette game as I am one against three here. Better luck next year! Make Bill Esty give you our class roll as E.E. seems to be chief sufferer. Culliney may be '13 but I know Wright, Samuels, Birnie, Martin and Hadsall were 1912 men.

Yours for Lehigh,

HORACE WRAY PORTER,
(12, E.E.) (Mich., 19, M.D.)

CANTON-HANKOW RAILWAY
Hupei-Hunan Section
Managing Director's Office

Wuchang, November 11, 1920.

My Dear Dr. Drinker:

You will perhaps be surprised to hear that I shall be in America early next year. Our Ministry of Communications is sending me out to study into the latest improvements in all phases of railway work in America and Europe, so I have made arrangement to leave China for the United States in coming January. My wife, niece and secretary will accompany me. We plan to stay at Washington, D. C. for three or four months, from there I can make side trips to New York and other places to carry out my duties. I expect to be present at the 20th Reunion of my class next summer. It will be a great pleasure to me to see you and some of my old professors and class-mates again, and re-visit Lehigh which has made great progress since my graduation.

I am glad to learn from the BULLETIN that the campaign for the Alumni Memorial has been a huge success. We, her sons in China, are rather ashamed that we have not done as much as we have wanted to do for our brethren who fought and died in the Great War. I am making the final collection of the subscriptions to the Fund from Lehigh men here, and hope to remit same to Mr. Okeson in the course of a few days.

With best wishes,

Yours sincerely,

YEN TE CHING, '01.

P.S.—My address for 1921 will be: Care of Yung Kwei, Esq., Chinese Legation, Washington, D. C.

GENERAL PERSHING COMPLIMENTS LEHIGH.

President Drinker is and has been for some years a member of the Pennsylvania Society of New York City, composed largely of Pennsylvanians resident in New York. Mr. Schwab is this year, and was last year, President of the Society, and presided at the Society's banquet held at the Waldorf-Astoria on Saturday evening, December 11. General Pershing was one of the honored guests at this dinner and during the reception prior to the dinner Mr. Schwab introduced Dr. Drinker to General Pershing. Greatly to Dr. Drinker's surprise and gratification General Pershing at once expressed his appreciation of what he said he knew Lehigh University had been doing in the preparedness cause in recent years. He evidently was well informed as to the service that Lehigh has rendered in that respect. It is a marked and rather surprising and certainly, to Lehigh University, a very gratifying evidence of the thorough knowledge that General Pershing has of Army details that, though he has naturally been engrossed with war matters abroad, he has at the same time kept himself so informed of matters at home as to know, not only of the general move for preparedness among college students through the S. A. T. C. and the R. O. T. C., but should personally know of Lehigh's active share in this work since the institution in 1913 of the Summer Military Training Camps for Students.

COLLEGE AND ALUMNI NEWS

Fall and Winter Sports.

Football has already been fully covered in our previous issues. Our other fall sports—soccer and cross-country running—were only moderately successful in so far as winning is concerned, but highly successful in furnishing good out-door sport for a number of men. The results are given below.

As to our winter sports, we have lots of hope but not much seasoned material. In basketball the entire first team, including the captain, is lost. However, there is some good new material and some excellent men from last year's squad who are showing up well. It is hoped that Roth and Savaria, who played in some games last year, will be out after the first of the year and thus help to strengthen the team. In wrestling only Captain Bertolett remains from last year's first string men. Bob Good, Intercollegiate heavyweight champion, is still in college, but having competed for three years, is not eligible for the Intercollegiates this year. In swimming the seasoned material is a little more plentiful, although in Stewart, the crack diver, and Damiani, the champion in the plunge, we have lost two stars.

SOCCER.

	Opp.	L.U.
Oct. 23—Bethlehem Shipbuilders.....	1	0
Oct. 31—Beth. Steel Coke Works.....	1	0
Nov. 13—Haverford.....	0	4
Nov. 27—U. of P. Second Team.....	0	0
Dec. 4—Northampton.....	1	1
Dec. 11—*Swarthmore.....	3	2

* Away.

Captain—E. Gonzales, '21.

Coach—Jimmy Murphy.

CROSS COUNTRY.

	Opp.	L.U.
Oct. 31—Rutgers.....	24	31
Nov. 6—Carnegie Tech.....	23	32
Nov. 18—Muhlenberg.....	28	27
Nov. 27—Intercollegiates—Won by Lafayette. Lehigh 4th place.		

Captain—W. H. Bruggmann, '21.

Coach—Morris Kanaly.

BASKETBALL.

	Opp.	L.U.
Dec. 11—Moravian College.....	18	34
Dec. 17—*Catholic University.....	29	28
Dec. 18—*Navy.....	28	14
Jan. 5—Muhlenberg.....		
Jan. 8—*Cornell.....		
Jan. 15—*Lafayette.....		
Jan. 19—*Army.....		
Jan. 22—Rutgers.....		
Feb. 5—U. of P.....		
Feb. 12—*Crescents.....		
Feb. 16—Seton Hall.....		
Feb. 19—Johns Hopkins.....		
Feb. 26—Swarthmore.....		
Mar. 2—Lafayette.....		
Mar. 5—Princeton.....		
Mar. 9—Lafayette (Neutral floor).....		

* Away.

Acting Captain—C. P. Maurer, '21.

Manager—R. A. Childs, '21.

Coach—Jimmy Murphy.

SWIMMING.

January 8—Stevens, at Hoboken (pending).
January 15—Rutgers, at New Brunswick.
January 22—Army, at West Point.
February 12—Amherst, at Bethlehem.
February 19—Johns Hopkins, at Bethlehem.
February 26—Swarthmore, at Swarthmore (pending).
March 5—Intercollegiates, at New Brunswick.
Manager—J. R. Farrington, '21.
Coach—Jimmie Mahoney.

WRESTLING.

January 22—West Virginia, at home.
February 5—Columbia, at Columbia.
February 12—Penn State, at Penn State.
February 19—Cornell, at Cornell.
February 26—Springfield, at home.
March 5—Brown, at home.
March 12—U. of P., at home.
March 18-19—Intercollegiates, at Princeton.
Captain—J. L. Bertolett, '21.
Manager—P. F. Walker, '21.
Coach—Billy Sheridan.

LEHIGH MEN IN THE LIMELIGHT

President Drinker Elected an Honorary Member of the American Institute of Mining Engineers.

Dr. Henry S. Drinker, '71, President Emeritus of Lehigh University, received an exceptional tribute at the meeting of the American Institute of Mining Engineers in New York during December when the Institute elected him an Honorary Member. The high measure of this distinction is attested by the fact that the Institute, in its fifty years of existence, has bestowed honorary membership upon only forty-one engineers and scientists having world-wide reputation in the mining field.

An interesting feature of the Institute meeting was the display of the original receipt for dues of Dr. Drinker for the first year of the Institute, 1871-1872. The Institute was founded in May, 1871, when Dr. Drinker was a student at Lehigh. The call to form the Institute was issued early in 1871 by Eckley B. Cox, Martin Coryell and Richard P. Rothwell, distinguished mining engineers of that day. Mr. Rothwell, who had his office as mining engineer in Wilkes-Barre, was then serving as Demonstrator of the Lehigh University School of Mines. Upon his invitation, Dr. Drinker, who was a senior in mining, attended the organization meeting of the Institute in Mr. Rothwell's office in Wilkes-Barre. Of the twenty-two men who were present at that meeting on May 16, 1871, only two survive, Dr. Drinker and Willard P. Ward, a mining engineer of New York City.

During the fifty years since, Dr. Drinker has been an active member of the Institute, serving as Manager in 1877-79 and as Vice-President and Director, 1918-1921.

In a recent issue of the *Blast Furnace and Steel Plant*, the following notice appeared about John W. Dougherty, B.S., '89:

John W. Dougherty has resigned as vice-president of the Crucible Steel Company of America and as president of the Pittsburgh Crucible Steel Company, and has been elected president of Margeutte Iron Company, New York. Mr. Dougherty has recently acquired a substantial interest in the latter company. Following his graduation as mining and metallurgical engineer

from Lehigh University, he was connected for 22 years with the Pennsylvania Steel Company, becoming general superintendent of the steel works. When he gave up this position in 1911 the plant consisted of five blast furnaces, 19 open hearths, three Bessemer converters, rolling mills and by-product coke ovens, employing 9,000 men. He resigned to join the Pittsburgh Crucible Steel Company. At that time the Midland plant had a capacity of 350 tons daily from one blast furnace. He increased it to two blast furnaces of 1,150 tons capacity, 12 90-ton open hearth furnaces, four rolling mills and a large modern by-product coke plant of 100 Kopper's ovens, with a capacity of 1,200 tons daily. Subsidiary to Marquette Iron Company is the Marquette Ore Company, owning properties in the Marquette range and conducting the parent company's mining operations. In addition it owns the lease on the Maroco mine in Minnesota, now being stripped and equipped with a washing plant.

In the *American Metal Market*, November 15, 1920, it is noted that C. G. Dunnells, C.E., '97, has been appointed to a committee which is to assist the State Industrial Board in drafting a building code for the State of Pennsylvania.

In the *Musical Courier* for November 13, 1920, we find a splendid article about Raymond Walters, B.A., '07, M.A., '13. This article, which is accompanied by an excellent picture of Walters, gives an outline of his busy life and, of course, especially notes his work as a member of the Executive Committee of the Bach Choir, and speaks of the historical volume, "The Bethlehem Bach Choir," published by Walters several years ago.

LEHIGH MEN WHO WRITE

The September 29th issue of the "Chemical and Engineering Journal" contains an article by Prof. Joseph W. Richards, '86, Head of the Department of Metallurgy, of Lehigh University. He says, "The bearings of this observation

A report on the making and testing of forty-three Gunite slabs and two concrete slabs in the Fritz Engineering Laboratory, made last summer by Prof. M. O. Fuller, of the Civil Engineering Department of Lehigh University, is published in a pamphlet just issued by the Cement Gun Company, Inc., of Allentown.

Prof. Lawrence B. Chapman read at the twenty-eighth general meeting of the Society of Naval Architects and Marine Engineers, held in New York on November 11 and 12, 1920, a paper entitled, "University Education in Ship Construction and Marine Transportation." This paper gives a complete resume of the course in Naval Architecture at Lehigh, of which Prof. Chapman is the head.

At the meeting of the American Society

of Mechanical Engineers, held on December 7 to 9, inclusive, papers were read by Prof. R. C. H. Heck, M.E., '93, head of the Mechanical Engineering course at Rutgers College, and by William L. DeBaufre, E.E., '07, M.E., '09, head of the Mechanical Engineering course at the University of Nebraska.

The December 11th issue of *Engineering and Mining Journal* contains an article by George C. Heikes, a student in the Metallurgy course of Lehigh University, on "The Judge Electrolytic Zinc Plant." This plant is located at Park City, Utah. The article, which is well written, is illustrated by eleven photographs and a descriptive flow sheet of the plant drawn by the author.

Putting the Responsibility on the Student

By JOSEPH W. RICHARDS

(From *Chemical and Metallurgical Engineering*, December 8, 1920.)

care being taken to convey instruction in such a shape as not to make it compulsory on them to learn; because no trace of slavery ought to mix with the studies of the freeborn man. —PLATO.

American institutions of higher learning are conducted entirely too much on the kindergarten plan and far too little on the principle of letting students work of their own volition. In the primary, secondary and grammar schools the hapless student is the object of a rigid system of "must," which leaves him no alternative but to work his hardest at the task imposed. In the high school things are much the same; lessons are assigned in a textbook, recitations are the principal exercises in the class room, and a rigid system of scoring absences insures that no student can be absent more than a specified number of times without being disciplined.

Our colleges, technical schools and universities continue this mechanical forcing of the student to his work. Every day has its appointed tasks, every hour is full of responsible duties, every precaution is taken that the student do at least the minimum amount of work before being passed for graduation. In fact, his teachers largely take upon themselves the burden of making him work; if a goodly portion of the class does not attain the pitiful minimum of 60 per cent, the teacher's conscience begins to hurt him—he has not made them work hard enough.

Under these conditions, which prevail quite generally, what opportunity has the student to learn his own responsibility to keep himself at work? With no option but to attend and grind, how can he feel any right sense of the great opportunities which are his? He is forced to do what he ought to be happy to do of his own volition, and his better nature rebels at the compulsion. But his rebellious spirit finds no chance to realize its ideals; he is in the grip of the machine,

he must do the work assigned and forced upon him, and he does it often with a discontented attitude, because he is made to do it.

What is the remedy? It is undoubtedly to put university students on their own responsibility, so that they can practice keeping themselves at their work. Do not make them do anything; let them make themselves do everything. You cannot teach a boy to use a knife without giving him one to use; he will probably cut himself in learning how, but give it to him you must. It is the same with the student's responsibility to bear his own burdens and to keep himself up to his work; the compulsion to work must be removed before the student can learn to take care of himself. Keep up the compulsion always, and you are robbing him of the chance to learn how to order and guide his own powers and his destiny; put the responsibility on him, and you are giving him the chance to learn to bear it.

The conclusion just stated may sound revolutionary and visionary to those so set in the old ways that they cannot see over the fences hedging in their narrow paths; but it works! Try it. Take no absences, hear no set recitations, stop treating university students like school-boys who have to be made to work, and treat them like men who know what they are at college for and mean to get it.

Then eliminate the weaklings and the neglectful by occasional examinations, fairly given and carefully read and assessed. If a student shows that he has not been doing what he should and what he knew was expected of him, give him his medicine, drop him out after perhaps one warning; he has eliminated himself. This leaves in college the earnest and capable and the workers. They are all to whom the institution owes any obligation. Their work will progress better and more profitably by reason of the elimination of the unfit.

It is no proper part of the duty of a university teacher to make a student work. Lead the horse to water, but you cannot make him drink; it is folly to try. Tell the student of his great opportunities, spread the feast before him, but do not try to force him to eat. By this policy it is possible to eliminate from our American colleges and universities the indifferent, the unwilling, the "dead-wood" of our classes, and to confine our further efforts to the inquisitive, the willing, the seekers after knowledge, who will work hard as anyone could wish, without any compulsion.

This is the teachers' as well as the students' paradise—a university where no compulsion exists and students bear themselves the responsibility of working, led by the helpful advice and sympathetic counsel of their co-workers—the teachers.

Lehigh University,
Bethlehem, Pa.

MARRIAGES

Class of 1911

On June 24, 1920, Mr. A. Robert Shaw to Miss Mercedes Gregory Morrell, of Brattleboro, Vt.

Class of 1913

On November 27, 1920, Mr. Henry R. Griffen to Miss Helen Hamilton Janeway, of Media, Pa. Miss Janeway is a sister of Price Wetherill Janeway, Jr., '13, who was one of the ushers, and Henry Griffen is a brother of John Griffen, '11, who acted as best man. Francis J. Gerhard, '13, was among the ushers. On January first Mr. and Mrs. Griffen will sail for Rio de Janeiro, Brazil, where the groom is a mining engineer with the International Ore Corporation.

Class of 1917

On December 4, 1920, Mr. Curtis Lee Garrett to Miss Annie May Evans, of Baltimore, Md. They will make their home at 4017 Forest Park Avenue, Baltimore.

Class of 1918

On April 28, 1919. (No, I haven't made a mistake in the year.) Mr. Maynard Mizel to Miss Marion Jackson, of Wisconsin Rapids, Wisconsin.

Class of 1919

On November 17, 1920, Mr. Barron P. Rex to Miss Anna Wilhemina Keenan, of Easton, Pa. At home, 200 Parker Ave., Easton, Pa.

Class of 1920

On November 25, 1920, Mr. E. H. Baderschneider to Miss Anna Marie Silberman, of Monongahela, Pa.

BIRTHS

Class of 1907

A son, Edward Gross, in April, 1920, to Mr. and Mrs. Charles A. Gross, of 2540 Boulevard, Jersey City, N. J.

Class of 1912.

A son, Henry Habel Otto, Jr., to Mr. and Mrs. H. H. Otto, of Lansford, Pa., on September 30, 1920.

Class of 1914

A daughter, Nonnie Lewis, to Mr. and Mrs. George Lewis, of Woodbury, N. J., on November 28, 1920.

Class of 1915

A daughter, Margaret Anna, to Mr. and Mrs. Vincent J. Pazzetti, Jr., of 802 W. Broad Street, Bethlehem, Pa., on December 3, 1920.

Class of 1916

A ten pound daughter, Ellen Carr Adams, to Mr. and Mrs. George B. Adams, of Aberdeen, Md., on June 27, 1920.

DEATHS

Class of 1888

We have a letter from Ralph W. Lee, '87, stating that John L. Van de Water died in Havana some years ago.

PERSONALS

NOTE.—Classes subscribing for the **BULLETIN** are printed in caps and the name and address of the man in charge of the guarantee fund. We also give the number of men in every class who have subscribed to the **BULLETIN** as individuals. And for comparison is given the number of men from that class who paid dues last year. All class guarantees are based on the active membership of the class and as soon as the number of subscribers exceeds the number of last year's active members a balance starts on the credit side of the ledger for that class. Every subscription paid after that point is reached means, for any class that has put up its full guarantee, \$2 for the class treasury. A class with any real pep to it can easily secure not only the return of its entire guarantee fund but an amount in excess of the original guarantee. Although the year is only half over and the classes have scarcely started to work, the total number of our subscribers is already considerably in excess of the total number of active members last year. Every day brings more subscribers.. If every class will get busy and help we can easily close the year with a paid circulation practically equal to unpaid circulation of the past years.

Class of 1869

Subscribers 0
Active members, 1919-20... 0

Class of 1870

Subscribers 2
Active members, 1919-20... 1

Class of 1871

Subscribers 1
Active members, 1919-20... 1

FIFTY YEAR REUNION, JUNE 11,
1921.

Class of 1872

Subscribers 1
Active members, 1919-20... 2

Class of 1873

Subscribers 2
Active members, 1919-20... 1

Henry S. Drinker, President Emeritus of Lehigh University, has moved to his new home in Merion, Pa.

Class of 1874

Subscribers 4
Active members, 1919-20... 4

Class of 1875

Subscribers 3
Active Members, 1919-20... 5

Class of 1876

Subscribers 5
Active members, 1919-20... 7

Charlie Taylor came east from his home in Santa Barbara, Calif., the end of October and will remain east for several months.

Class of 1877

Subscribers 4
Active members, 1919-20... 5

Class of 1878

Subscribers 9
Active members; 1919-20... 8

Class of 1879

Subscribers 6
Active members, 1919-20... 7

The idea is reaching back into the seventies. Read this letter from J. S. Cunningham, President, Bengal Coal Co., of Charlestown, W. Va. You may be sure I gladly gave him all the information. Here's hoping that '79 comes through 100%.

November 29, 1920.

Mr. Walter R. Okeson, Editor,
ALUMNI BULLETIN,
Bethlehem, Penna.

Dear Mr. Okeson:

I have read with interest your article "The Crucial Year," in November issue of **BULLETIN** and wish some information regarding Class of 1879. There are but three living graduates, Tucker, Sargent and myself. H. J. Seaman was active until two years ago but have not heard of him since; nor have I heard of the other non-graduates for many years that you heretofore listed.

I would thank you to go over your list and advise me regarding those who are taking the **BULLETIN**, those who you think would take it, eliminate the dead wood, and tell me what I should do to comply with your idea of making the Class 100% membership in the Alumni Association. We have never had a Class Organization, that idea probably not being featured 40 years ago and again we are so small in numbers, those of us who graduated can keep in touch with each other, from time to time, by personal correspondence.

You are doing a fine work in this effort to bring the boys together.

Yours sincerely,

J. S. CUNNINGHAM,
Box 553,
Charleston, W. Va.

Theodore D. Palmer, who has retired from business is now living at 88 Washington Street, East Orange, N. J.

Class of 1880

Subscribers 8
Active members, 1919-20... 5

Look at those figures. Here's an easy job for someone.

Class of 1881

Subscribers 3
Active members, 1919-20... 4

'81 has a 40-year reunion this spring. Who's going to start the ball rolling by undertaking the work of getting all the living members back this June. As to

a BULLETIN guarantee fund I reckon that's up to Tom Eynon. He was a moving spirit in starting the BULLETIN and is Chairman of the Publication Committee. What's the verdict? Right! He's elected.

His classmates will hear with sympathy that S. W. Russel, formerly Asst. Mgr., in St. Louis, Mo., of the Mutual Life Ins. Co. of New York, has been ill for a year and is just out of the hospital. He is at his home at 178 W. 23rd Street, Sioux Falls, S. Dakota.

Class of 1882

Subscribers 6
Active members, 1919-20... 4

With the exception of '69 and '71, this is the smallest class to enter Lehigh, numbering 22. They graduated eight men, however, which is more than the number of graduates in '69, '71, '73, '74, '79 or '81. There are only about a dozen living legitimate members for whom we have an address. I'll bet L. O. Emmerich could line them all up if he just took a notion to start.

CLASS OF 1883

Class Secretary: A. E. Forstall, 15 Park Row, New York City.

Individual subscribers.....19
Active members, 1919-20...21

William D. Janney, formerly Consulting Engineer for the Terminal Freezing & Heating Co., of Baltimore, Md., is now Special Engineer for the United Railways & Electric Co., 1509 Continental Building, same city.

CLASS OF 1884

Class Secretary: A. Parker-Smith, 61 Broadway, New York City.

Individual subscribers.....12
Active members, 1919-20...12

CLASS OF 1885

Class Secretary: George W. Snyder, Annex No. 3, Broad Street, Station, Philadelphia, Pa.

Individual subscribers..... 9
Active members, 1919-20...10

W. Howard Allen wrote to us on December 3, 1920, from 1404 N. Los Robles Avenue, Pasadena, Calif., saying, "I will surprise you by 'coming through' with the long sought Liberty Loan Bond for \$100 for a Life Membership." And inside the envelope nestled said little bond which now reposes in our safe deposit box in the Lehigh Valley National Bank. There is still quite a lot of room in said box, '85.

M. B. Feldmann, Vice-Pres., American Gas & Electric Co., 30 Church Street, New York City, has moved from Mt. Airy, Pa., to Englewood, N. J.

CLASS OF 1886

Class Secretary: William H. Sayre, 50 Church Street, New York City.

DON'T FORGET OUR 35th REUNION, JUNE 10 AND 11, 1921.

Individual subscribers.....17
Active members, 1919-20...16

Sayre was out on the Pacific Coast for nine weeks this fall but on his return he immediately got busy on BULLETIN guarantee fund for '86. For fear he would not get it completed in time to announce in this number he sent along the entire amount out of his own pocket, just as was done by Cornelius, '89, and Evans, '01. In both cases the Class not only made good but over-subscribed the guarantee. I'll lay you a little wager that '86 does the same.

T. J. Williams, who has an executive position with the Standard Oil Co., at 26 Broadway, New York City, is now living at 45 South Munn Avenue, East Orange, N. J.

CLASS OF 1887

Class Secretary: Frank R. Dravo, Diamond Bank Building, Pittsburgh, Pa.

Individual subscribers.....26
Active members, 1919-20...25

The mother of Ralph W. Lee died at his home at 1514 Newton Street, N.W., Washington, D. C., on December 10, 1920, in the eighty-eighth year of her age.

CLASS OF 1888.

Class President: Harlan S. Miner, 915 Monmouth St., Gloucester, N. J.

Individual subscribers.....35
Active members, 1919-20.....33

Charles D. Marshall, President of the Alumni Association, has just returned from a six weeks trip to England.

CLASS OF 1889.

Class Secretary: William A. Cornelius, McKeesport, Pa.

Individual subscribers.....29
Active members, 1919-20.....38

The class will be interested to know that their President, Arch Johnston, is creating a beautiful country home in the far side of Camel's Hump. All of this beautiful hill lies within Arch's new estate.

CLASS OF 1890

Class Secretary: Howard Foering, Bethlehem, Pa.

Individual subscribers.....38
Active members, 1919-20...34

The Official Register of the United States Military Academy, just published, reports that James Barlow Cullum, Jr., son of James Barlow Cullum, of Sewickley, Pa., stood first on the general merit roll of the class of 1920 and fourth in the list of distinguished cadets upon graduation from the Academy on June 15, 1920.

CLASS OF 1891

Class Secretary: Walton Forstall, Corner Broad and Arch Streets, Philadelphia, Pa.

Individual subscribers.....35
Active members, 1919-20...34

THIRTIETH REUNION, JUNE 11, 1921.

The 30th Reunion is usually the most successful in the career of a class. It occurs at an age when most of the members are still living and yet when having rounded a half century of life, each individual is beginning to prize very highly the recollections and companions of youth, and, therefore, is eager to take advantage of every opportunity to renew his former associations. Every '91 man should now plan to be in Bethlehem on June 11th and should write the Secretary to that effect. This is probably our last chance to place our name on our own beautiful Reunion Cup. Every man, who by his presence next June aids in this result, will in after years look back on that achievement as one of the pleasantest of life's memories; to say nothing of the freshening and stimulating experience of a visit to the ever more beautiful Alma Mater.

WALTON FORSTALL,
Secretary.

Mail sent to George S. Hayes, formerly a Consulting Engineer at 1123 Broadway, New York City, has been returned. Does anyone know his present address?

Class of 1892

Subscribers24
Active members, 1919-20...26

No one has answered the question of who is to take George Engel's place as Class Secretary, so I just picked out one of the best-natured men in the Class, namely, Charles O. Wood, of Chambersburg, Pa., and wished it on him until such time as the Class gets busy and elects one. Has he accepted? Well, to tell the honest truth I don't know. Haven't heard from him yet. But it's my guess that he will, for he's always on deck when we plant the Lehigh battle-flag in the breeze.

Robert R. Kitchell, with an office at 920 Land Title Building, Philadelphia, Pa., is a Consulting Mechanical Engineer who specializes in patents.

W. J. Lloyd, formerly with the General Electric Co., at Lynn, Mass., has evidently changed his address, as we have notice from the Lynn post office that they cannot find him to deliver his December BULLETIN. We would like his new address.

Class of 1893

Subscribers39
Active members, 1919-20...34

Well of course Knox just couldn't get out of it. As a past president of the Association and of the New York Lehigh Club, a former Alumnus Trustee, president of the Class of 1893, one of the

founders of the BULLETIN and a member of the Publication Committee, there were six different reasons why he could not say no. So '93 has started after its guarantee fund. In case you don't hear from Knox promptly and can't wait, just send your check to Schuyler B. Knox, 29 Broadway, New York City.

J. S. Carman, who is a chemist in the Health Department, Los Angeles, Calif., has moved to 512 So. Kingsley Drive, that city.

The T. H. Symington Co., headed by Tom Symington, of lacrosse fame, has moved its offices from 30 Church Street to 233 Broadway (Woolworth Bldg.), New York City.

CLASS OF 1894

Class Secretary: I. I. Beinhower, Rutland, Vt.

Individual subscribers.....47
Active members, 1919-20...41

Frank Faust, Jr., has been transferred from Buffalo to Milton, Pa., to become District Manager there for the American Car and Foundry Co.

A. B. Jones is Vice-President of Clark, MacMullen & Riley, Consulting Engrs., New York, and is living at 1050 Edgewood Avenue, Plainfield, N. J.

E. P. VanMater, formerly Attorney-at-Law in the Shafer Bldg., Rutherford, N. J., can no longer be reached at that address. Does any one know his whereabouts?

R. C. Warriner, who returned from South Africa during the war in order to serve our government, is now located as a Consulting Engineer in 43 Exchange Place, New York City, and is living at Essex Fells, N. J.

CLASS OF 1895

Class President: Franklin Baker, Jr., N.E. Corner of 13th and Market Sts., Philadelphia, Pa.

Individual subscribers.....68
Active members, 1919-20...63

Frank H. Crockard, President of the Woodward Iron Co., Woodward Ala., is now living at 1305 Niazuma Avenue, Birmingham, Ala.

T. J. Hamilton, after a distinguished service abroad during the late war, is now Chief Engineer and General Superintendent, Gary Street Railway, Gary, Ind.

W. J. Hiss, formerly Vice-Pres. American Agricultural Chemical Co., No. 2 Rector Street, New York City, runs his pen through this information and gives us a new residential address at 955 Park Avenue, New York City.

Where is "Bill" Reinecke? Cranmer, '15, wrote that Reinecke had left Argentina to return to New York, but a letter addressed care of the International Machinery Co., New York City, is returned to us.

Class of 1896

Subscribers59
Active members, 1919-20...48

TWENTY-FIFTH REUNION, JUNE 10-11-12, 1921.

A business trip prevented Sammy Des-sauer getting started on the '96 guarantee fund until late in December. He writes me on December 23 that he is home "and will get busy on this proposition and try to put it across." Let me correct you Sammy. Leave out the words "try to." They have no place in any project you undertake and especially if this project involves class action by '96.

Hasell W. Baldwin, as can be seen by this month's advertisement of the American Car and Foundry Co., has left the New York office of this company to become Asst. District Mgr. of the Buffalo District.

Fairfax Bayard, formerly Examiner-in-Chief, U. S. Patent Office, Washington, D. C., is now Assistant Attorney, Patent Dept., General Electric Co., Schenectady, N. Y., and living at No. 2 Rugby Road, that city.

Class of 1897

Subscribers41
Active members, 1919-20...29

We think this class ought to be easy for Thad Merriman. Look at the start they have. Almost a certainty before they begin that they will get all their guarantee back. A year from next June is your 25th Reunion. There is no time like the present for getting started. Get your class organized this year, your class lists cleared and corrected and a nice nucleus in the class treasury. The first step is a '97 BULLETIN guarantee fund. Thaddeus Merriman, Municipal Bldg., New York City, will receive your checks.

Samuel P. Senior, formerly Vice-Pres. and Chief Engr. of the Bridgeport Hydraulic Co., has been made President of that Company. Sam has bought a farm and will spend his spare time (and money) raising crops. But if he ever twists his mule's tail the way he used to twist that lock of hair, the Bridgeport Hydraulic Co. will need a new president.

H. C. Tschudy, formerly (and perhaps yet) Vice-Pres. of the National Bank of Smyrna, Smyrna, Del., is now President of Ziegler Bros. Co., at 22nd Street and Lehigh Avenue, Philadelphia, Pa. He retains his residence in Smyrna.

Class of 1898

Subscribers30
Active members, 1919-20...25

L. S. (Jack) Homer, Vice-Pres. of the Acme Wire Co., New Haven Conn., once wrote me that he was ready and willing at any time to help organize his class for larger usefulness in the Alumni Association. So I have taken him at his word and am asking that he undertake to raise a BULLETIN guarantee fund for '98. I remember this class mainly as Fresh-

man. If they are half as full of pep now as they were then Jack will have easy sailing.

I noted in the last BULLETIN that F. H. (Mike) Gunsolus is with the Zapon Leather Cloth Co. I am now able to add that he is Manager of Sales for the Chicago territory, covering the entire middle west from Canada to the Gulf. His home address is 1142 Morse Avenue, Chicago, Ill.

The news comes from Russell G. Quarrier, of Charlestown, W. Va., that Carroll W. Quarrier died about five years ago. During all this time we have been sending him mail regularly and not a letter has been returned. Therefore his occupation, business address and home address had remained unchanged on our records. Merely another instance of how much we need help from the classes in keeping track of Lehigh men. When a graduate, living within 500 miles of the College, can be dead for five years without our knowing it there is surely something wrong with our Alumni Association and our class organizations.

CLASS OF 1899

Class Secretary: Arthur W. Klein, Bethlehem, Pa.

Individual Subscribers.....31
Active members, 1919-20...26

We have been addressing Major John H. Klinck at 2915 Thirteenth St., N.E., Washington, D. C. We are advised by the Post Office Dept. that he has removed. Can any one give us his present address?

Class of 1900

Subscribers26
Active members, 1919-20...27

Well, he's on your trail, '00. I dropped a note to George H. Robinson, Pres. of the New York Sewage Disposal Co., 37-39 E. 28th Street, New York City, and here's the answer:

New York, December 18, 1920.

My Dear Okie:

Of course I'll take up the guarantee for the BULLETIN! I'll get the letters off Monday. You are perfectly wonderful Okie! Sort of a Lehigh Billy Sunday when it comes to getting the sinners to hit the sawdust trail. I wish you a very merry Christmas.

Yours,

ROBBY.

Well, it was a merry one, Robby. And it was scores, nay, hundreds of letters like yours that made it so. You fellows are all wonderful. I never have to ask you twice. Faith! I should think you'd be tired of me long ago. For I sure am like the horse-leech's daughters, "Forever crying, Give! Give!" But you give not only money but work. Not only work but appreciation. It's no wonder I'm strong for this Lehigh bunch.

Ernest F. Burchard is Geologist in charge of the Section of Iron and Steel Metals, U. S. Geological Survey, Washington, D. C. Burchard graduated from Northwestern University after leaving Lehigh, receiving his B.S. in 1900 and M.S. in 1903.

CLASS OF 1901

Acting Secretary: Cadwallader Evans, Jr., 216 Dearborn Place, Ithaca, N. Y.

Individual subscribers.....32
Active members, 1919-20....26

TWENTY YEAR REUNION, JUNE 10 AND 11, 1921.

Cad Evans says he is trying to get his press agent, Sam Harleman, to take up his pen and write something special about '01's twenty year Reunion. If Sam has an inspiration we'll hold the press and slip it in.

Hurrah! Just caught Sam in the Bethlehem Club, where he was stopping for the night. Wouldn't let him go to bed until he wrote the following:

"1901 REUNION! To those who have returned each year, to those who have never been back and to those who return occasionally we desire to serve notice that we are due for our Twentieth Reunion next June.

"Having been duly notified by Cad that Slim has appointed me head of the Publicity Department, I am going to ask all of you who read this first call, to advise me at 43 Central Avenue, Fredonia, N. Y., whether you are planning on coming to the first real big reunion of 1901. Get thinking about it now so right after March 4th you will be in the right attitude (per Reiter). We will be without the services of our hustling president, 'Slim' Wilson, for a time, so every one of you fellows must help put this across. Read the BULLETIN, for it is through this medium we will do most of our publicity work. This will keep you in touch with the whole program and save me a lot of postage.

"SAM HARLEMAN."

Edward Thornton is Superintendent of the Imperial Mine, American Smelting & Refining Co., Silverbell, Ariz. He writes Evans, sending him a check for dues and asking that his name be put on the mailing list.

Dal Wilson has gone to California with his family to spend a couple of months. He has been having a pretty rocky time, being under the doctor's care all fall. Here's hoping you come back in the spring in good shape, Slim, and (if such a thing's possible) with more ginger than ever.

Class of 1902

Subscribers24
Active members, 1919-20....21

Well, "Bob" Bird is the Secretary, so there's really nothing unfair about calling on him to do the work. Then too, he is right here where I can call him on

the phone. And in addition to all this he certainly is a worker. Of course my hint was "jest a leetle mite strong." But once a strong arm artist always a strong arm artist. Robert Montgomery Bird. That's the name, 917 Prospect Ave., Bethlehem, Pa.? Correct. Here's your checkbook. Where's your pen?

We were glad to get from George Baker, Secretary of the Pittsburgh Lehigh Club, the address of W. S. Johns, as we have had none for some time. He is Supervisor, Pennsylvania Railroad, Pitcairn, Pa.

CLASS OF 1903

Acting Secretary: Dyer Smith, 233 Broadway, New York City.

Individual subscribers.....55
Active members, 1919-20....43

Dyer Smith is certainly a fast worker. It took him no time at all to clean up '03's guarantantee fund. Guess I'll have to revise my idea of lawyers. Always thought they were strong on "postponement" and "continuance." Not so Dyer. If you want action on a patent he's the boy to go to. By the way, he is no longer with Samel Owen Edmunds, at 32 Liberty Street, but has associated himself with S. Mortimer Ward, Jr., and Gorham Crosby for the practice of patent and trademark law under the firm name of Ward, Crosby & Smith, at the Woolworth Building, 233 Broadway, New York City.

Nicholas A. Heck sent from Seattle seven wonderful panoramic views of Alaska's glaciers, which have been turned over by the Association to the Department of Geology. He writes, "The view in Ford's Terror is entirely new. I cannot find that John Muir visited this canyon, although he explored most of the glacial region of S. E. Alaska." These views were taken with the special purpose of bringing out glacial activity and were greatly appreciated by Prof. Benjamin L. Miller, Head of the Department of Geology.

E. R. Morgan, Engineer for the Robins Conveying Belt Co., has been transferred from the Chicago office to the Pittsburgh office, which is in the Union Arcade Building.

Class of 1904

Subscribers46
Active members, 1919-20....37

Whenever we want to raise money here in Bethlehem we call in Parke Hutchinson and so it is most natural to hand him the job of raising 1904's BULLETIN guarantee fund. I admit that when a man is so eternally and infernally good-natured that it is a shame to take advantage of his good-nature. But really I planned the campaign for him and gave him all the data so that his work won't

be great unless he elects to conduct it in some other way. In which case my conscience will be clear and incidentally my mind a lot easier, for Parke knows how to handle '04 a lot better than I do.

H. P. Barnard, now acting Works Manager for the Crucible Steel Co. of America, has been elected Vice-President of the Cleveland Cold-Drawn Steel Co., recently organized with a capital of \$2,000,000. Its new plant is under construction on Dunham Road, Cleveland, O.

Luther Becker, who two years ago opened the first office in Japan, at Tokio, for the U. S. Steel Products Co., has just returned to New York and is living at 106 So. Fullerton Avenue, Montclair, N. J. While in Japan he was Manager of the Tokio office but he resigned his position with the company on December 17.

Well, we have one man in this class who can't be fooled. It is C. L. Orth, Dist. Sales Mgr. of the Allis-Chalmers Co., in St. Louis, Mo. There was a mistake made on his statement and he was only charged \$3.00 for the current year's dues. He wrote, "This should be \$5.00, should it not?" and without awaiting a reply enclosed a check to cover. Thank you, Charley.

W. U. Mussina writes, "Your con-founded persistence has at last gotten under my hide and I am therefore going to cut down your cost of running expenses and postage by enclosing bond which will make me a Life Member of the Association. The only thing I regret is that I do not have you in my business as a bill collector." Mussina is an automobile dealer in Williamsport, Pa. He sticks on a postscript saying, "On the level, I am glad to do this and wish all of '04 would get in the running." So do I, Billy. You've got nothing on me in making that wish.

Class of 1905

Subscribers53
Active members, 1919-20...44

The other day Dr. "Billy" Estes stopped me and wanted to know why he hadn't heard from Dan Berg requesting a subscription to 1905's BULLETIN guarantee fund. If you don't get these letters out pretty soon, Dan, these subjects of yours will court martial you. You might think some one was calling them to dinner instead of asking them for money.

James L. Mease, who we noted in a former number had returned to Bethlehem from West Virginia, had a bad fall shortly after his return and fractured his knee-cap. It has mended nicely, however, and promises to leave no ill effects.

Class of 1906

Subscribers70
Active members, 1919-20...57

FIFTEEN YEAR REUNION, JUNE 10
AND 11, 1921.

E. T. Gott, President of the Class, had a little committee meeting with N. G.

Smith on December 23, and writes that they will do what they can to put the BULLETIN guarantee over for 1906. With a Reunion coming this spring it ought not to be hard, especially with a class which already has seventy BULLETIN subscribers. With that start every dollar of the guarantee ought to come back to the Class in the spring for reunion purposes. How about using it for costumes that "will hit 'em in the eye and knock 'em dead." We want bands and costumes and fireworks for the big midnight Parade this June.

C. F. Gilmore, formerly with the Grit Publishing Co., of Williamsport, Pa., is now on the Editorial Staff of the "Pittsburgh Press."

Milton D. Kirk, formerly Asst. to the President, Davis Coal & Coke Co., Cumberland, Md., is now Vice-Pres., Pittsburgh Terminal Railroad & Coal Co., Pittsburgh, Pa.

H. J. Lose is Mechanical Engr. in the Automotive Dept., Standard Steel Car Co., Butler, Pa.

R. B. Reinhard, formerly Chf. Draftsman, U. S. Light & Heat Corp., Niagara Falls, N. Y., is now with the Traylor Engineering & Mfg. Co., at Allentown, Pa.

Arthur C. Flory has been promoted from Asst. Mgr. to Manager of the Steam Turbine Dept., Allis-Chalmers Co., Milwaukee, Wis.

C. W. Barwis, formerly with the Pa. R. R., is now Field Supt., Interior Oil & Gas Corp., Warren, Pa.

Kenneth Mills has been made Manager of the New York office of the Columbia Graphophone Co., at 121 W. 20th Street, New York City. He was previously in the Chicago office.

Class of 1907

Subscribers62
Active members, 1919-20...40

Ray Walters writes in regard to the '07 guarantee fund, "Many thanks for your letter of December 17th. You may count upon it that '07 will do its part, or I am wrong in my esteem of our membership." But you are not wrong, Ray. The same fellows who turned in almost a hundred subscriptions to the Memorial for a total of over \$10,000 can be counted on to the limit.

G. K. Herzog has resigned his position as metallurgist with the Electro Metallurgical Co., at Niagara Falls, to go with the Haynes Stellite Co., at Kokomo, Ind.

R. H. Jones was formerly with R. H. Richardson & Sons, Norfolk, Va. Mail sent to him at that address during November was returned "unclaimed." Where is he?

Class of 1908

Subscribers69
Active members, 1919-20...55

I have just had a letter from Bachman that 1908's guarantee fund is progressing. With the start Lakey gave it I imagine it is well on its way towards completion. There is a beautiful chance for competition among the classes from 1904 to 1909, inclusive. They are almost exactly the same size and it is one of the few cases where you can make a direct comparison. 1906 led last year in number of active members. 1907 led in the Memorial Campaign in numbers of subscribers and amount of subscriptions. 1906 leads again (at the moment) in the number of subscribers to the BULLETIN, but 1908 is only one behind and 1909 only one less than 1908. Now here's a little race. Which one, from 1904 to 1909, will complete their guarantee fund first? And more important still, which one will show the largest number of BULLETIN subscribers and active members when June rolls around?

Russell D. Bell has been elected a Director of the Dryden Paper Co., Ltd., of Dryden, Ontario, Canada. He is a member of the firm of Greenshields & Co., Investment Bankers, 17 St. John Street, Montreal, Canada. Bell served during the war in the 351st F. A. and was commissioned a Captain at the front on November 4, 1918.

Theodore Nagel, formerly with the E. G. Spilsbury Eng. Co., has now taken over the business of that company and has his offices as a Consulting Engineer at 132 Nassau Street, New York City.

Class of 1909

Subscribers68
Active members, 1919-20...53

They all arrived at my office one December afternoon. Dave Petty, Parke Fraim and Bob Klar, the whole membership of 1909's Executive Committee. And believe me, they left no stone unturned in getting the dope for '09's BULLETIN guarantee fund campaign. They made me go over every name on the Class list and cut a lot of them off who they claimed belonged to '07 or '08. Said '09 would be glad to have these men but knew they belonged elsewhere. Some names they eliminated altogether as belonging to men who were only in college a few weeks. It sure was a thorough house-cleaning and yet they have only started. By the time they get through '09's list will be absolutely correct and will set a mark for the other classes to shoot at. Every class list needs just this kind of a going over and the only men who can do it intelligently are members of the class itself.

Robert J. Desh, formerly Supt. of Construction for the Newport Chemical Works, Inc., Milwaukee, Wis., writes, changing his address to 1017 N. Main

Street, Bethlehem, Pa., but fails to note his present occupation.

H. K. Ellis, formerly Asst. Engr. in the Bureau of Highways, Philadelphia, Pa., is now County Engineer for Chester County, with office in the Court House, West Chester, Pa.

E. D. Mill, formerly with the Bethlehem Steel Co., is now with the E. P. Wilbur Trust Co., Bethlehem, Pa.

J. C. Stoddard, who was Mining Engr. for the Wharton Steel Co., Wharton, N. J., has opened an office as a Mining Engineer in the National Union Bank Bldg., Dover, N. J.

Class of 1910

Subscribers87
Active members, 1919-20...78

Of all the classes preceding 1917 the largest one is 1910. To raise a guarantee fund for this class is *some* job. However, we have *some* man to do it. He isn't so very large but if there ever was a bunch of vitality which fairly sizzles electric sparks of energy that same bunch is H. M. Fry. December was a bad month for him and he was unable to get started on this project until the very end. He's started now, however. Watch the sparks fly, 1910. Make good on this guarantee fund and you will be able to add it to that \$1000 you are raising for your 15th Reunion.

S. P. Hess writes he has moved from 119 Marston Avenue to 336 S. Martindale Avenue, Detroit, Mich. As he writes on the letterhead of the Detroit Steel Products Co. he is evidently still with that company.

Charles A. Foust, formerly with the Buck Run Coal Co., Minersville, Pa., is now with the Nichols Copper Co., Laurel Hill, L. I.

Caleb S. Kenney is now Asst. General Sales Mgr. of the Weston Dodson Co., Inc., Bethlehem, Pa.

W. J. McCormick has left the New Castle Rubber Co., and is now draftsman to the Master Mechanic, Penna. R. R. Shops, New Castle, Pa.

W. W. Merwin, for whom we had no address, is Supt. for the H. C. Frick Coke Co., Footdale, Pa., and is living at 6328 Howe Street, Pittsburgh, Pa.

W. Z. Price has left the Pocahontas Cons. Coal Co., Berwind, W. Va., and is now Instructor in Mining Engineering at Carnegie Tech., Pittsburgh, Pa., and living at 218 Hasting Street, that city.

C. N. Shaffer, who is Sales Engr. for the Taylor-Wharton Iron & Steel Co., is now in the New York office of that Company.

D. G. Williams, formerly Const. Engr., is now Chief Engr. of the Trojan Powder Co., Hunsicker Bldg., Allentown, Pa.

Class of 1911

Subscribers84
 Active members, 1919-20...48

TEN YEAR REUNION ON JUNE 10 AND 11, 1921.

This Class is started on its reunion plans as the notice below will tell you, and Jack Dillon writes me that he has sent out the letters for subscriptions to 1911's BULLETIN guarantee fund. They already have 75% more subscribers than they had active members last year and this is by far the greatest increase shown by any class. It is evident that this Ten Year Reunion has got them all wakened up. J. H. Throm started the guarantee fund with a generous subscription and I hope to announce its completion in the next issue.

Here is the Reunion Committees first blast on the trumpet:

New York, November 29, 1920.

A luncheon and get-together meeting was held several days ago by members of the Class of 1911, who are located in the vicinity of New York. This meeting was called to discuss arrangements for our Ten Year Class Reunion, and to get work started.

At the outset we wish to inform all members that we are going to have a real reunion, and no one can afford to miss it. The Committee's "middle name" for the reunion is "a good time for everybody," so if you have any suggestions which will help, let us have them.

We think where any number of 1911 men are located in the same city, they should get together and help the good cause along.

The following Committee has been appointed:

- (J. R.) Joe Dawson, 646 Ashland Ave., Niagara Falls, N. Y.
- (C. S.) Chick Albright, L. S. & M. S. Ry., Cleveland, Ohio.
- (J. L.) John Becker, 361 Grove Street, Newark, N. J.
- George H. Reussner, 226 E. 5th Street, Bethlehem, Pa.
- (D. B.) Dode Wood, 747 W. Diamond Ave., Hazleton, Pa.
- (A. K.) Al Hohl, 5145 N. Camac Street, Philadelphia, Pa.
- (D. C.) Dan Keefe, Ingersoll-Rand Co., 11 Broadway, New York City.
- (J. H.) Jack Dillon, Ingersoll-Rand Co., 11 Broadway, New York City.
- (A. G.) Tex Black, 519 W. Armstrong Ave., Peoria, Ill.

If you have not heard from the Committee, get in touch with the man in your territory.

For the Committee,
JACK DILLON.

We have heard from John M. Bley. He is a Structural Engineer at 103 N. 35th Street, Philadelphia, Pa.

George C. Craver, who is Treasurer of the Delta Chemical Co., at Well, Delta Co., Mich., has moved to that town. He lived formerly at Escanaba, Mich.

Ralph C. Miller is in the Mercantile Business in Allentown, Pa., with the George A. Miller Co., at 824 Hamilton Street.

J. C. Throm, who was Sales Engr. for David Lupton Sons Co., Buffalo, N. Y., is now Manager of the same Company.

A. R. Shaw, formerly a teacher in the Hamilton Institute for Boys, New York City, is now Asst. Principal of that school.

Walter G. Schall, who was with the Standard Car Const. Co., of Sharon, Pa., is now with the Farrell Works, Carnegie Steel Co., in the same city.

Class of 1912

Subscribers66
 Active members, 1919-20...58

Now I wonder who is going to start things for 1912. With a Reunion coming in 1922 it is quite necessary for them to keep all their men on the subscription list of the BULLETIN. It seems to me that I remember hearing that G. J. Shurtz is an officer of this Class. How about it, George?

A. G. Birdsall, formerly in the Commercial Dept., is now Asst. Supt. of Inside Const., Pennsylvania Power & Light Co., 802 Hamilton Street, Allentown, Pa.

C. R. Bulley writes, changing his address from "Care Hess Steel Corp., Baltimore, Md.," to 71 Bethlehem Pike, Chestnut Hill, Philadelphia, Pa., but does not give any occupation.

G. A. Caffal, who was Acting Manager, has been made Manager of Erection, McClintic-Marshall Co., Pittsburgh, Pa.

F. W. Youry, who is Sales Engr. for the Truscon Steel Co., Norfolk, Va., writes on his little green slip, "You win! More power to you!" It seems to me he has almost enough enthusiasm to draft for the BULLETIN guarantee job.

Class of 1913

Subscribers79
 Active members, 1919-20...72

If only "Sunny" Edwards was back in Bethlehem instead of away down in Ensley, Alabama, I would know just where to look for a volunteer to raise 1913's BULLETIN guarantee fund. Of course there are lots of other live wires with equally good nicknames, like "Smoky, Jr.," Gerhard and "Judy" Price, and a number whose names are not so romantic but who are just as wide-awake. Come on, '13. I'll take the first one who offers, even if it is a Class officer.

T. A. Bryant, formerly with Barth & Son, New York City, is now a First Lieut., 8th Cavalry, U. S. A., and is located at Fort Bliss, Texas. His permanent mailing address is care of T. P. Peters, 100 Marlborough Road, Brooklyn, N. Y.

A. F. Eberly, Jr., is working for A. Eberly's Sons, Inc., 718 Seventh Street, N.W., Washington, D. C.

Alexander Kalajan, who has been Resident Engr., for the Emergency Fleet Corp., at Newburgh, Pa., is now living at 112 Sixth Street, West New York, N. J.

A. J. Kutzleb, formerly Supt. for H. D. Watts Co., Baltimore, Md., is now Asst. to Manager, Baltimore Branch, The Manhattan Rubber Mfg. Co., 13 W. Pratt Street, Baltimore, Md.

G. A. Rupp is Research Engineer for the Trojan Powder Co., Allentown, Pa.

Class of 1914

Subscribers83
Active members, 1919-20...67

Not long ago I met Walter A. Schremmel in front of the Bethlehem Post Office. "Say, Okey," he remarked, "If you can't get anyone else to undertake 1914's BULLETIN guarantee fund I'll volunteer. Only I'm not a graduate." "Young man," said I, "If you only knew what a lot of weak sisters we have among the graduates and, on the other hand, what corking Lehigh men there are among the non-grads, you wouldn't bother to add that remark. Your offer is accepted and you have the job." And it didn't take him long to get to work either. His letters have already gone out to fifty of his classmates. He hopes to get what is needed without circularizing the whole class, but he'll be mighty glad to get a check for any amount from any member of the Class. His address is 1105 Dela-

ware Avenue, Bethlehem, Pa. Show you are as good a sport as he is and volunteer a subscription without waiting to be asked. If you can't afford a couple of dollars for the fund be sure and send in your subscription to the BULLETIN anyway. That will help swell the amount which the class will get back next spring.

The mail of A. C. Cooper, addressed to 5011 Pine Street, Philadelphia, Pa., has been returned. Who knows where he is?

J. W. Donaldson, formerly with Coleman duPont Co., 120 Broadway, New York, is now in the banking business at 16 Wall Street, New York City.

Robert E. Mickel is with the Guaranty Trust Co., 1-3 Rue des Italiens, Paris, France.

H. R. Shellenberger is working for the Supt. of Motive Power, New York Central R. R., Cleveland, Ohio, and living at 2122 Morrison Avenue, Lakewood, Ohio.

C. L. Packard has left the duPont Engr. Co., at Detroit, Mich., and is in the Baltimore office of Weston Dodson & Co., Inc. He is living at 806 St. Paul Street, Baltimore, Md.

Class of 1915

Subscribers75
Active members, 1919-20...73

H. M. (Casey) Search worked so hard on the 1915 Memorial Fund that I've hated to ask him to take up the guarantee fund for 1915. And yet it has been a constant temptation. You see he is



TRUCKS

TWIN
SIX

SINGLE
SIX

For over two decades the name Packard has
stood for all that is best in car or truck.

PACKARD MOTOR CO. OF PITTSBURGH

HARTLEY HOWARD, JR., VICE-PRESIDENT

'92

right here in Bethlehem where it is hard for him to escape. And, too, I know he would do it in a minute if I asked him. You wouldn't call this asking him, would you?

John E. Bauman is taking a post-graduate course at Lehigh.

C. W. Borgman is General Used Car Manager for the Packard Motor Car Co. of New York, at 1861 Broadway.

J. B. Bowman, formerly with the Reist Engr. Co., of Washington, D. C., is with the Amer. Tel. & Tel. Co., 429 Telegraph Bldg., Harrisburg, Pa.

Robert E. Goyne is in Africa. His address is Tshikapai Kasai, Congo Belge, West Africa, care of Forminiére.

C. M. Shriver, who was Asst. Trainmaster on the B. & O. Ry., at Holloway, Ohio, has been promoted to Asst. Supt., with headquarters at Baltimore, Md.

Mail addressed to C. H. Snyder care of Hawkins Bros. & Co., Philadelphia, Pa., and also to 1421 S. 55th Street, Philadelphia, has been returned. Can anyone furnish his present address?

H. H. Stuart's mail is also returned. He did live at 14 Summer Street, St. Johnsbury, Vt. Who can help in finding him?

Class of 1916

Subscribers84

Active members, 1919-20...89

FIVE YEAR REUNION, JUNE 11, 1921.

Donald T. Wynne, President of 1916, writes to say "that you can count on us for a guarantee fund, and I will get it together as soon as possible." By the way, he also gave an interesting piece of news. He was presented with a son some five months ago. And he sends along a notice of especial interest to 1916:

HELP WANTED—MALE.

Wonderful opportunity open to every member of the Class of 1916, to make our Five Year Reunion, and virtually our first one, big enough and spirited enough to put our class in the limelight as a graduate class. If you are willing to help in any way write me, if only a line. Failure to hear from you will signify that you can not or will not take advantage of this real opportunity. Address:

DONALD T. WYNNE,
No. 1 Mill Street,
Port Chester, N. Y.

Ellis Brodstein, who, after graduating from Lehigh, studied law at U. of P., is now an Attorney-at-Law, with office at 526 Court Street, Reading, Pa.

E. J. Clement, formerly Asst. Mech. Engr., G. Amsinck & Co., Inc., 90 Wall Street, New York City, is now Manager of the Engineering Dept. of this big import and export house.

Paul R. Ehrsgott is a brick manufacturer at 128 W. Northampton Street, Bethlehem, Pa.

Harold I. Fair, who is now a clergyman in the Episcopal Church, is connected with Emmanuel Church, 15 Newbury Street, Boston, Mass.

Mail addressed to W. R. Kuhn, care of Specification Dept., Goodyear Tire & Rubber Co., Akron, O., is returned. Who knows his whereabouts?

R. A. Suppes, who was Mining Engr. of the Knickerbocker Mines, is now General Supt. for these mines, with offices in the First National Bank Bldg., Johnstown, Pa.

Another man lost, C. H. Thomas, who when last heard from was with the Corn Products Co., Argo, Cook Co., Ill.

Class of 1917

Subscribers113

Active members, 1919-20...125

W. A. Richards had a credit of \$28 on the books of the Alumni Association. He wrote saying to give it all to 1917's guarantee fund. "Ady" Bach, the President, and F. E. Portz were already planning the fund when this news reached them. Portz wrote back to me saying they would go ahead at once and in a postscript noted that a few telephone calls had jumped Richards' \$28 to \$66. So their fund is two thirds done almost before they start to work, and every '17 man will nod his head gravely and say, "Sure! What else did you expect?"

By the way, "Ady" Bach is engaged to Miss Margaret Patricia Berens, of New York City. Miss Berens is a Smith College graduate and, according to "Ady," is the most wonderful girl that New York City has or ever will turn out.

Henry R. Boston is Industrial Engineer with Scovell Wellington & Co., 27 Wilham Street, New York City.

D. A. Culhane, Jr., is a Dentist, with offices at 105 W. Fourth Street, Bethlehem, Pa.

G. Y. Custer, formerly with the Carpenter Steel Co., Reading, Pa., is now Production Engr., Reading Plant, Parish Mfg. Corp.

Lieut. Harry C. Dayton, F. A., U. S. A., is engaged in educational work at Camp Pike College, Camp Pike, Ark.

Alan C. Dynan, formerly with the Bethlehem Steel Co., is now in the Pittsburgh district, living at 303 Henry Ave., Sewickley, Pa.

Duncan Kennedy is a Surveyor for the Turner Const. Co., at Gastonia, N. C. His home address is 57 W. 50th Street, New York City.

G. M. Levy is Mechanical Engr., with the Atlantic Refining Co., 3144 Passyunk Avenue, Philadelphia, Pa.

I. G. Ross, Jr., is a commercial paper salesman at 73 Broadway, Mauch Chunk, Pa., and is working for the firm of Hathaway, Smith, Folds & Co., of 45 Wall Street, New York City.

N. I. Stotz is Metallurgist with the Braeburn Steel Co., Braeburn, Pa.

Class of 1918

Subscribers99
Active members, 1919-20...97

In 1919 this Class, under the active leadership of "Tim" Hukill, the President, ably seconded by men like A. E. Buchanan, turned up on Alumni Day with 158 Active Members, which was decidedly the largest membership any class has ever had in the Association. Last year this shrunk to 97 because the Class was not having a reunion. It shows just what class work means and indicates clearly if the classes will work we can easily increase the membership of the Association 50%. For them to put over a group subscription to the BULLETIN would be a cinch and unless "Tim" appoints somebody pretty soon to do it he's going to be elected himself.

E. M. Allan is taking the Student Course, Union Carbide Co., Niagara Falls, N. Y.

H. A. Bachert is Electrician with the Penna. Light & Power Co., Bethlehem, Pa.

W. L. Bratten, formerly draftsman with the Frid Eng. Co., in Philadelphia, is now Midwest Sales Mgr. for the Purity Products Co., with an office at 529 New York Life Ins. Bldg., Kansas City, Mo.

Edward T. Corrigan has been made Vice-President of the Rockledge Machine Works, Inc., located at Fox Chase, Pa.

L. C. Fenstermacher returned from a trip to South America for the Sinclair Oil Co. in August. He then went to the oil and gas district near Pittsburgh for the U. S. Geological Survey and has just been transferred to Knoxville, Tenn.

D. Hallock Ketcham is in China for a year, employed by the Chinese government to teach the Chinese the mechanism of hydroplanes. His address is 17th Aero Preta, Macao, China. He wrote his mother that he recently met in Canton China, Paget, '15, and McConnell, '18. How's that for a Lehigh reunion in far-off China.

J. E. Schmich is a transmission tester for the Amer. Tel. & Tel. Co., 34 Walker Street, New York City, and is living at 311 W. 95th Street.

M. R. Solt is Instructor of Mathematics at Lehigh and is living at 124 W. 4th Street, Bethlehem, Pa.

A. C. Sommers is President, Capital City Auto Corp., 176 Allyn Street, Hartford, Conn.

S. A. Kendall, Jr., is a Coal Broker, District National Bank Bldg., Washington, D. C.

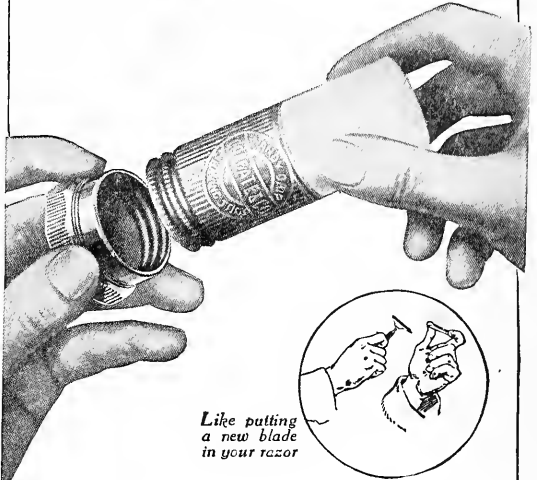
Harold S. Hutchinson is Engineer, Bed Rock Oil Co., Paintsville, Ky.

Class of 1919

Subscribers76
Active members.....91

It is a pretty hard job for the younger classes to put across a guarantee fund. The classes are large and the men can scarcely hope to do more than pay their

COLGATE'S "HANDY GRIP" The Refill Shaving Stick



Like putting
a new blade
in your razor

FASTENING the "Refill" Shaving Stick into your Colgate "Handy Grip" takes but a moment. It is like putting a new blade in your razor. The soap itself is threaded.

Your "Handy Grip" will last for years. Colgate "Refill" Shaving Sticks cost you the price of the excellent soap alone.

Shaving with Colgate's makes it unnecessary to rub the fragrant, softening lather in with the fingers.

We took the rub out of shaving, originally, away back in 1903.

COLGATE & CO.

Dept. 112

199 Fulton Street

New York

The Shaving Stick is the economical way to make a satisfactory lather. We can give you this impartial advice because we make Shaving Sticks, Powder and Cream. Send 4c for trial size of any of these.



own subscription. I really haven't the nerve to wish this job on anyone. On the other hand, 1919 was shot to pieces more than any other class by the war and needs building up and organizing. It is really quite vital that an Executive Committee be appointed to handle class affairs. I am going to call on "Ken" Bevier, the Class President, to do this. If this committee is appointed they can then handle the guarantee fund and I believe can put it across. '19 is a splendid class and will respond quickly to any real effort towards organization.

George A. Ganter writes from Balboa Canal Zone, Panama, saying, "Your letter of July 15 caught me after going to Chile, back to the States and then to Panama. As I didn't want to be considered dead yet, I feel the above explanation is necessary." Ganter's home address is Annandale, Staten Island, New York, R.F.D. No. 1, Princess Bay.

G. B. LaPish is no longer at Marcus Hook, Pa. Does anyone know his whereabouts?

W. B. Shirk is Asst. Supt., Electrical Dept., Lebanon Plant, Bethlehem Steel Co., and is living at 205 S. 3rd Street, Lebanon, Pa.

J. M. Skillman is at Lehigh in the Class of 1921 but is a '19 man just the same.

The address of J. H. Wagner is Box 26, Wilkesburg, Pa.

E. F. Whitney is in the Blast Furnace Dept. of the Republic Iron & Steel Co., Youngstown, Pa., and living at 45 Lincoln Apartments, that city.

T. C. Zeller is a student at Jefferson Medical College, Philadelphia, Pa.

Class of 1920

Subscribers102

FIRST REUNION, JUNE 11, 1921.

Every member of this Class gets his BULLETIN whether he subscribes for it or not. As it is their first year out of college it is our duty to help the officers get organized and the columns of the BULLETIN are open to them to aid in this work.

To the Members of The Class of 1920:

Alumni Day comes on June 11, 1921, and 1920, the youngest class, wants to make the best record that has ever been made by a class the first year after their graduation.

Boys, we are going after those two cups. We have a big job on our hands, and it is going to require the co-operation of every man in the Class to put it across, as well as the strenuous efforts of a few of us. And this is the way that we plan to do it.

You remember last year that you appointed your President and Secretary to be ex-officio members of a reunion committee and put three other men on the committee with them. Those five are

pretty well scattered. Estes is in Trenton, N. J.; "Jimmie" Straub is in Canonsburg, Pa., and close to him, in Jeanette, is "Russ" Bellman. Arthur Carr is close to the old camping ground, being located in Easton, while your President is farther away than any of the other four, trying to learn how to be a lawyer at the Harvard Law School. These five men are going to start the work. The lists are being prepared and they are going to write to the different men at different times and let them know the progress of our campaign.

As time goes on and June draws near, your President is going to take the liberty of appointing additional men temporarily as district chairmen in places where many Lehigh men are located, such as New York, Washington, Philadelphia, Boston and Pittsburgh, whose duty it will be to go out and try to get in touch personally with the '20 men located in that district and get them to come back.

This is our method of attack. But no matter how hard we work, we need every man in '20 behind us to help us out. If you hear of new addresses let us know, if you have any suggestions, send them in. This reunion is not the committee's nor any individuals; it is YOUR reunion and its success depends on what YOU do to help make it go.

We are going to need money. If two hundred men subscribe to the BULLETIN, "Okey" has promised that he will give a fifty cents rebate to the class for their reunion. That means \$100 and is going to mean a lot. Send in your subscription. But we probably will need more; stamps, stationery, other expenses which come up will be necessary, so when you are called on for whatever it is (it won't be much), don't put the letter back in the pigeon-hole and try to figure who is in on the graft and then forget all about it. Send it in right away and make possible a big party with all of the old crowd back.

Remember, reunions are five year affairs after this. We meet again officially in 1925. Some of us may be millionaires by then; some of 1920 may just be getting out of college then; more seriously, some of us may be where it will be impossible to come back. Think it over. This is well worth everything you can give to it.

About those suggestions and changes of addresses, your President is located at 63 Wendell Street, Cambridge, Mass., and will welcome such matters from his classmates. In the meantime, watch the 1920 column in the BULLETIN for further information and put aside some of that Christmas money for the big spree next June.

MERCER B. TATE, JR.,

President, Class of 1920.

Gennero De Croce is now living at 215 N. 2nd Street, Pottsville, Pa.

(Continued on page 28)

A Coal or a Water Mine?

WHEN ten tons of water are pumped out of a mine for every ton of coal shipped, it is advisable to pay close attention to pumping equipment. One record shows 88.3 tons of water for every ton of coal—that is a water mine. Pumps in that case are all important.

Whether 10 to 1, or 88.3 to 1, it is self evident that coal mining is largely dependent on good pumps and pumping machinery. Since coal mining service is particularly severe—because of acid water and silt—Worthington builds pumps for duty in and around coal mines of specially selected metals, and of special design.

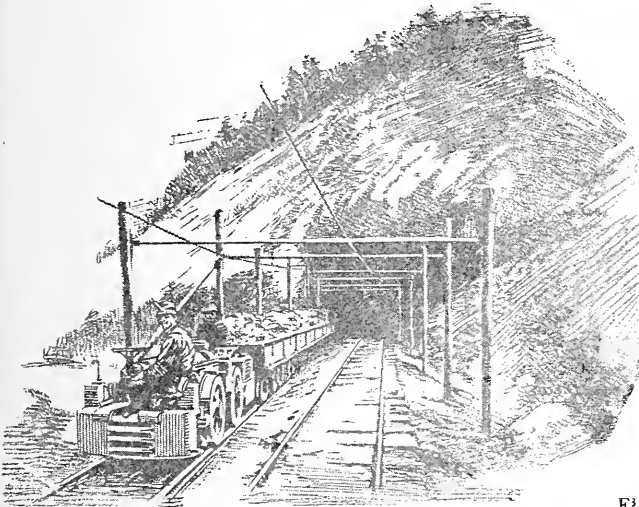
Besides the regular line of power plant apparatus, Worthington builds fire pumps, air compressors, steam, centrifugal and power pumps, etc. The design of each type of apparatus has been determined according to the experience gained through many years by Worthington engineers in the coal fields of the country.

WORTHINGTON PUMP AND MACHINERY CORPORATION

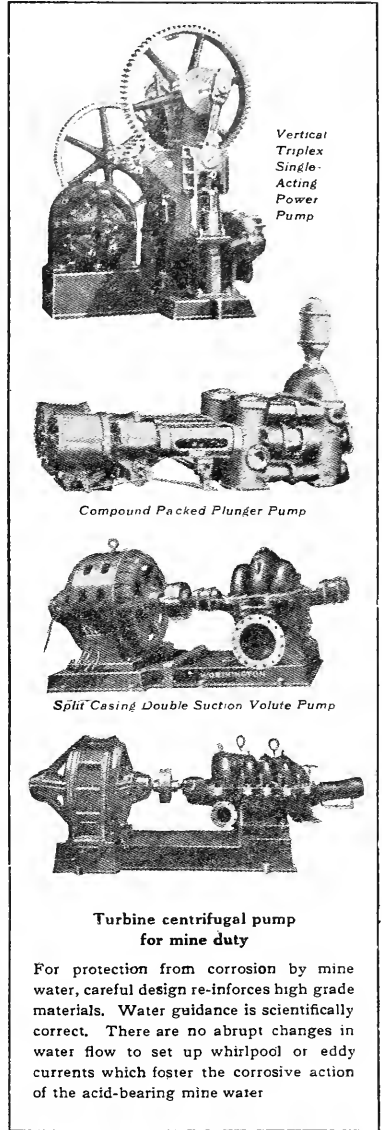
C. P. Coleman, '88, President

Executive Offices: 115 Broadway, New York City

Branch Offices in 24 Large Cities



E



Vertical
Triplex
Single-
Acting
Power
Pump

Compound Packed Plunger Pump

Split Casing Double Suction Volute Pump

Turbine centrifugal pump
for mine duty

For protection from corrosion by mine water, careful design re-inforces high grade materials. Water guidance is scientifically correct. There are no abrupt changes in water flow to set up whirlpool or eddy currents which foster the corrosive action of the acid-bearing mine water

PUMPS—COMPRESSORS—CONDENSERS—OIL & GAS ENGINES—METERS—MINING—ROCK CRUSHING & CEMENT MACHINERY

WORTHINGTON

Deane Works, Holyoke, Mass.
Blake & Knowles Works
East Cambridge, Mass.
Worthington Works
Harrison, N. J.
Laidlaw Works, Cincinnati, Ohio.

Hazleton Works,

Hazleton, Pa.

Gas Engine Works, Cudahy, Wis.
Power & Mining Works
Cudahy, Wis.
Snow-Holly Works
Buffalo, N. Y.
Epping-Carpenter, Pittsburgh, Pa.



A. R. Evans has a new address at 2015 5th Avenue, Altoona, Pa.

J. L. Geiger is a graduate student. Westinghouse Elec. & Mfg. Co., East Pittsburgh, Pa. His mailing address is Scarletts Mills, Pa.

C. G. Goodell is working in the Traffic Engineer's office of the C. & P. Telephone Co., Washington, D. C., and is living at 1747 Oregon Avenue, N.W.

P. C. Hammond is a Civil Engineer at 1007 Broad Street, Newark, N. J.

The engagement is announced of William H. Hunton to Marguerite Elizabeth Speck, of Bethlehem, Pa. Miss Speck is a graduate of the Moravian College for Women. Hunton is with the Aluminum Co. of America, and living at the Alum-inum Club, New Kensington, Pa.

R. J. Knerr is in the Construction Engr. Dept., Bethlehem Steel Co., Bethlehem, Pa.

George Kutcher is in Alaska at present doing secretarial work. His home address is 309 Watson Avenue, Perth Amboy, N. J.

Harry G. Levy is with the S. L. Hechinger Co., 6th and C Streets, S.W., Washington, D. C.

Charles T. Mason, Jr., is living at 7636 Girard Street, La Jolla, Calif.

B. A. Paulik is in the Engr. Dept. of the Seaboard By-Products Coke Co., Jersey City, N. J., and is living at 425 Third Avenue, Lyndhurst, N. J.

Joe Spagna worked last summer for the Stone & Webster Corp., on a foundation job at Baltimore. Work being stopped, this fall he played football with the Cleveland and Buffalo teams. A few weeks ago I succeeded in getting him a job in the Building Inspection Dept. of the Standard Oil Co., 26 Broadway, under E. R. Eichner, '02.

A. J. Sugar who has been working in Woodward, Ala., writes that he is leaving after January 1, and gives his home address as 1308 E. Liberty Street, Berkley, Norfolk, Va.

W. R. Wallace is working for Henry W. Wampole & Co., 426 Fairmont Ave., Philadelphia, Pa.

W. K. Wiegner is an electrical mechanic with the Philadelphia Electric Co., and is living at 808 High Street, Bethlehem, Pa.

Vic de Wysocki is in the Eng. Production Office of the Industrial Heating Dept. of the General Electric Co., at Schenectady, N. Y. He lives at 1415 State St. Vic helped coach the Union College football team last fall.

IF YOU WANT THE BEST GOODS OR SERVICE—

PATRONIZE OUR ADVERTISERS!

IF YOU WANT A QUALITY MARKET—

USE OUR ADVERTISING COLUMNS!

WRITE FOR RATE CARD TO WALTER R. OKESON, EDITOR.
DROWN HALL, BETHLEHEM, PA.

AUBURN BALL BEARING COMPANY

Auburn Ball Bearings Answer Friction Problems

Steel, Brass and Bronze Balls

F. A. Collins, Jr., '08, Sales Mgr.



Send for Catalog

ROCHESTER, N. Y.

B. M. ROOT COMPANY, YORK, PA.

MANUFACTURERS OF

WOODWORKING MACHINERY

BEN. T. ROOT, '06, Pres.

J. WM. STAIR, '06, Treas.



Sending Horse Power Nation - Wide

FAR up in the hills the force of a waterfall is being changed into that invisible power which runs through a wire.

This power, electricity, is always available because it can be carried from the place where it is generated to the place it is used, quickly, cheaply, safely, and in any amount. A coal mine in Pennsylvania and a waterfall in Maine may feed the same system of wires, to supply power for an industry in Massachusetts and for a water pump on a Delaware farm.

The General Electric Company has provided the means for developing Nature's dormant resources into electric power and transmitting this power. In addition, it is constantly creating or bringing nearer to perfection, apparatus to apply this power and devices to regulate and distribute it to greatest advantage.

And in doing this, the General Electric Company is unceasingly striving to conserve raw materials, such as fuel, which may better serve mankind in other ways.

55-332 I



GENERAL ELECTRIC COMPANY

NIAGARA

"Le Bellus Art" Wall Papers

*Every Roll
a Work
of Art*

The MAY DAY FRIEZE
is a splendid nursery pattern
painted by Carmen Browne.

A cleverly conceived picturization of youthful characters winding with daisy chains the make-believe bridal pair. Birds, flowers and blossoms are arranged on the roll to be cut out and pasted on the side wall, an ideal decoration for the youngsters' own room.

This splendid pattern
may be had in any of six
different colors.

Samples on request.

NIAGARA WALL
PAPER COMPANY

Niagara Falls, N. Y.

T. M. UPTGRAFF
Class '09

R. H. TORREY
Class '09



NIAGARA WALL PAPER COMPANY
NIAGARA FALLS, N.Y.

DESIRABLE RESULTS WITH EXPLOSIVES

are obtained when the proper explosive
is used in the right way.

Because blasting requirements are so varied and because there are so many kinds and grades of explosives, it is difficult many times to determine which is the proper grade to use for a particular piece of work.

As a means to obtain desirable results with a saving of blasting costs, the assistance of our Service Division is offered without charge to users of Atlas Explosives.

Atlas Products include:

High Explosives

100 different kinds for all purposes

Permissible Explosives—Coalite

Made in all grades

Blasting Powder

All Standard Granulations

Blasting Supplies

For Fuse and Electric Firing

Chemicals

Sulphuric Acid, Nitric Acid, Mixed Acids,

Oleum, Electrolyte, etc.

Lacquers

For Wood and Metal

Leather Cloth

For Upholstery.

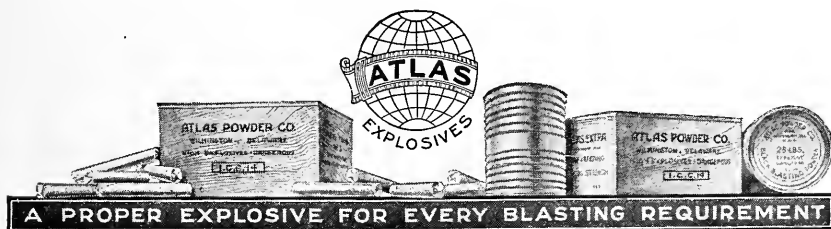
ATLAS POWDER COMPANY

GENERAL OFFICES

WILMINGTON, DEL.

Frank H. Gunsolus, '98

Weston G. Frome, '10



PUMPING MACHINERY

WILSON-SNYDER MANUFACTURING Co.

H. D. Wilson, '01, President

PITTSBURGH, PA.

NICHOLSON & COMPANY PITTSBURGH CHAIN WORKS

TESTED CHAINS AND FORGINGS

RANKIN
Pennsylvania

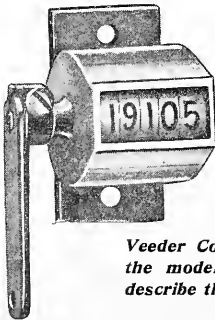
WORKS, HAWKINS STATION, PA.
Pennsylvania Railroad

T. Nicholson, Jr., M.E. '83

D. K. Nicholson, M.E., '85, M.S. '00

Veeder

Products : CYCLOMETERS FOR BICYCLES AND MOTORCYCLES, TO RECORD DISTANCE TRAVELED; ODOMETERS FOR MOTOR TRUCKS AND HORSE-DRAWN VEHICLES, TO REGISTER MILEAGE; COUNTERS FOR RECORDING THE PRODUCTION OF MACHINES; SPEED COUNTERS FOR COUNTING REVOLUTIONS (PER MINUTE) OF SHAFTS OR FLYWHEELS; TACHOMETERS FOR INDICATING IN REVOLUTIONS-PER-MINUTE THE SPEED OF MOTORS, PRIME MOTORS, GENERATORS OR ANY REVOLVING PART.



The small Rotary Ratchet Counter shown at left is a most adaptable counter for practical and experimental work. It counts reciprocating movements of the lever, as required in recording the output of stamping-presses. When the lever is moved through an angle of 40 to 60 degrees, the counter registers one. A complete revolution of the lever registers ten. This counter is applicable to no end of small machines, by adjusting the throw of the lever.

Price, \$2.00. (*Cut nearly full-size*).

Veeder Counters are made for every machine that should have one—all the models are shown in the Veeder counter booklet. Special circulars describe the other Veeder products; write for any or all of them.

The Veeder Mfg. Co., 20 Sargeant Street,
HARTFORD, CONN.

Bethlehem Foundry & Machine Company

GENERAL FOUNDERS AND MACHINISTS

BETHLEHEM, PENNA.

W. A. WILBUR, President

ROBT. E. WILBUR, '04. Asst. to Gen'l Mgr.

J. GEORGE LEHMAN, '96, 1st Vice Pres & Gen'l Mgr. I. E. KRAUSE, Sec'y and Treas.



Guaranty Trust Company Bank Building, New York City
Awarded Gold Medal in 5th Ave. Construction Contest, Nov. 1920

Bethlehem Fabricators

INC.

OFFICE AND WORKS
BETHLEHEM, PENNA.

NEW YORK OFFICE
7 E. 42D STREET

PHILADELPHIA OFFICE
ST. JAMES HOTEL

Standard Buildings

IN STOCK
STRUCTURAL STEEL
FABRICATORS
AND ERECTORS
LARGE STOCK PLAIN MATERIAL
GENERAL MACHINE WORK

R. P. Hutchinson, '04
J. H. Traeger, '03
Leonard Savastio, '13
G. M. Overfield, '14
F. L. Stephenson, '16
R. W. Wolcott, '18
C. Atkins, '19
B. B. Davidson, '20
H. G. Larsen, '21

FRANKLIN BAKER COMPANY
PHILADELPHIA

COCONUT PRODUCTS

CANNED COCONUT COCONUT OIL
COCONUT FIBRE

President, Franklin Baker, Jr., '95

ESTABLISHED 1857

INCORPORATED 1906

T. B. WOOD'S SONS COMPANY

CHAMBERSBURG, PA.

MODERN AND APPROVED APPLIANCES
FOR THE TRANSMISSION OF POWER

CHAS. O. WOOD, '92

T. B. WOOD, '98

G. H. WOOD, '99

WHITE & BRO.

INCORPORATED

SMELTERS AND REFINERS

412 NORTH AMERICAN BUILDING

PHILADELPHIA

HARRY A. WHITE, '95

C. B. WHITE, '05

THE PHOENIX IRON CO.

Manufacturers of Open Hearth

Structural Steel Shapes

Works:
PHOENIXVILLE, PA.

Main Office:
PHILADELPHIA, PA.

Offices: 22 S. 15th St., Philadelphia. 110 State St., Boston.
132 Nassau St., New York. Chamber of Com. Bldg., Rochester.

THE PHOENIX BRIDGE CO.

Engineers and Builders of

Bridges and Other Structures of Steel

Bridge Works, PHOENIXVILLE, PA.

Established 1790

Capacity 75,000 Tons per Annum.

W. R. HALL, '02, ASST. ENGR.,
W. H. ELLIS, '09, ASST. ENGR.,
W. E. STURGIS, '10, RES. ENGR.,

BRIDGE DEPT.
ERECTION DEPT.
WASHINGTON OFFICE

RICHARDS & GASTON, INC.

ENGINEERS AND CONTRACTORS

RAILROADS, BRIDGES,
STEAM SHOVEL WORK, ETC.

OFFICE SHOPS AND YARD,
110 SOUTH BRIDGE ST., SOMERVILLE, N. J.

LOUIS P. GASTON, '88, PRES.

H. G. VANDERVEER, '03
S. B. RICHARDS, '20

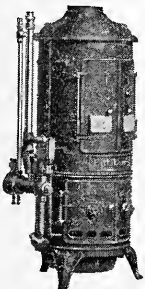
Carrier Engineering Corporation



39 CORTLANDT ST., NEW YORK, N. Y.

E. T. MURPHY, '01, VICE-PRESIDENT
PHILADELPHIA, PA.

HUMIDIFYING, DEHUMIDIFYING, COOLING, AIR WASHING, AUTOMATIC TEMPERATURE AND HUMIDITY REGULATION.



Pittsburg

Automatic Gas Water Heaters

SUPPLIES PROMPT SERVICE HOT WATER
FOR THE HOME OR INDUSTRIAL INSTITUTIONS INSTANTLY AT THE TURN
OF THE FAUCET

EASILY INSTALLED. NO CHANGE IN PRESENT PLUMBING NECESSARY.
AMOUNT OF GAS CONSUMED IS MEASURED BY THE HOT WATER USED.
SEND FOR CATALOG. BRANCH OFFICES IN ALL LARGE CITIES.

PITTSBURG WATER HEATER COMPANY
PITTSBURGH, PA.

JOHN JOY EDSON, JR., '93, PRESIDENT

T.G.R. PIERSON COMPANY, INC.

15 WILLIAM STREET
NEW YORK

INSURANCE FOR CORPORATIONS

WORKMEN'S COMPENSATION
EMPLOYERS' LIABILITY
PUBLIC LIABILITY
GROUP LIFE

FIRE
AUTOMOBILE
STRIKE INSURANCE
CATASTROPHE COVERAGE

WE SPECIALIZE IN MANAGING SELF INSURANCE PROBLEMS FOR MANUFACTURERS AND CONTRACTORS. SUPERVISE ALL MEDICAL AND HOSPITAL TREATMENT. INVESTIGATE AND SETTLE ALL CLAIMS DIRECT WITH EMPLOYEES OR OTHER CLAIMANTS. REPRESENT OUR CLIENTS BEFORE THE INDUSTRIAL COMMISSIONS AND PROVIDE EXPERT LEGAL SERVICES IN EVENT OF SUITS.

ACCOUNTS PLACED WITH STOCK INSURANCE COMPANIES ON A BROKERAGE BASIS HAVE THE BENEFIT OF OUR EXPERT SUPERVISION OF CLAIMS WHICH PRODUCES RATE REDUCTIONS IN ALL LINES.

ECKFORD C. DEKAY, '95, VICE-PRES.

THE

Bethlehem Preparatory School

A SCHOOL OF HIGH SCHOLASTIC STANDING

Every opportunity given the student to make rapid progress and save time.

1600 boys prepared for leading universities in 41 years.

All branches of athletics.

Write for catalogue.

JOHN MITCHELL TUGGEY

Head Master

The Road to Health Is Smooth and Clear If You Use Nujol

By C. Houston Goudiss

Publisher, The Forecast and Lecturer on Food and Nutrition

THE real Road to Health is an intestinal highway 30 feet long. When Constipation clogs this road, it's the same as when a landslide blocks a mountain pass. There is a difference, however. Constipation not only blocks the way, but breeds poisons which menace health.

The obstruction in the mountain pass can be blown out with dynamite, and the obstruction in the intestines CAN be blown out with powerful drugs—but any drug powerful enough to do this is bound to harm the body.

There is only one way to relieve Constipation without in the least measure endangering the delicate mechanism of the human system. That is the Nujol way.

Nujol is absolutely harmless. It is NOT a drug. Not a particle of it is assimilated by the body. All it does is to soften the mass impacted in the colon and lubricate the way to normal expulsion.

Nujol does this without causing any pain or discomfort. It does not in any way interfere with the digestive processes. It has no more effect on the delicate membranes and tissues than to smooth and soothe them. It is a healing force which gently but effectively removes the intestinal obstruction, and performs this great service to health without in any way lessening Nature's provisions for protection. Its sole province is to help Nature help herself. Nearly everyone is subject to Constipation at some time or other. Nearly everyone has proved the worthlessness of ordinary "remedies" as to lasting results.

Now try Nujol—and learn that there is a lasting relief for this curse.

Nujol

REG. U.S. PAT. OFF.

For Constipation



Sold by druggists, in sealed bottles, bearing the Nujol trade mark.
Mail coupon for booklet, to Nujol Laboratories, Standard Oil Co.
(New Jersey), Room 704, 44 Beaver Street, New York. (In Canada:
Address Nujol, 22 St. Francois Xavier Street, Montreal.)

- | | |
|--|---|
| <input type="checkbox"/> "THIRTY FEET OF DANGER" Constipation—auto-intoxication in adults. | <input type="checkbox"/> "AS THE TWIG IS BENT" Constipation in infancy and childhood. |
| <input type="checkbox"/> "THE DAYS THAT GO BEFORE" Constipation in pregnancy and nursing. | <input type="checkbox"/> "WAGES OF NEGLECT" Constipation as a cause of piles. |
| <input type="checkbox"/> "AS THE SHADOWS LENGTHEN" Constipation in old age. | |

Name.....

Address

"Proctor" **DRYERS**

THERE IS A "PROCTOR" DRYER FOR ALMOST
EVERY PRODUCT THAT NEEDS DRYING.

Let us send our engineers to investigate your drying problems without cost to you.

Catalogue upon request.

PROCTOR & SCHWARTZ, INC.

formerly THE PHILA. TEXTILE MACH. CO.

Builders of Drying Machinery

Philadelphia, Pa.

C. W. SCHWARTZ, Jr., '89, President.

R. O. Keiser, '11

P. D. March, '06

Howard Kantner, '17

W. M. LALOR COMPANY

MANHATTAN BUILDING
CHICAGO, ILL.

Apparatus for the Distillation of Water

RAILWAY SALES DEPARTMENT
ZAPON LEATHER CLOTH COMPANY, NEW YORK
"Leather Cloth of Quality"

W. M. LALOR, '04, President

NICETOWN PLATE WASHER CO.

REFINED BAR IRON, FIRE ESCAPE IRON, STEP IRON, PUNCHED BARS AND PLATES,
CAST IRON WASHERS, GALVANIZED WASHERS, WROUGHT WASHERS, STANDARD OR
SPECIAL, MEDIUM STEEL BARS, GALVANIZED BAR IRON

WORKS: JUNIATA AND CLARISSA STS.
NICETOWN, PHILA., PA.

WHEELER LORD, '96

THE ROWAN CONTROLLER COMPANY
MANUFACTURERS OF

AUTOMATIC MOTOR CONTROL

PRESIDENT, J. S. ROWAN, '10
SALES MANAGER, W. C. JACKSON, '10

BALTIMORE

THE LEHIGH COAL AND NAVIGATION COMPANY

437 CHESTNUT STREET

PHILADELPHIA, PA.

Miners of Old Company's Lehigh Coal

Since 1820

SAMUEL D. WARRINER, '90, President

PROFESSIONAL CARDS

Methuen, Mass., Phone 31 Lawrence

WILLIAM D. HARTSHORNE, '74

Consulting Engineer

Textile Mill Conditions a Specialty

Cable Address

"Hartshorne, Lawrence" Mass.

Coal Exchange Bldg. Scranton, Pa.

WILLIAM GRIFFITH, '76

Consulting Geologist and Engineer

COAL PROBLEMS—Examinations, Reports, etc.
anywhere at any time.

Interviews by appointment in larger cities

Washington, D. C. 916 G St., N. W.

JAMES A. WATSON, '84

Patent Lawyer

New York City 15 Park Row

FORSTALL AND ROBISON

Consulting Engineers

For Public Utilities

Alfred E. Forstall, '83

Chas. D. Robison

St. Louis, Mo.

711 Clark Ave.

ROBERT W. BARRELL, '87

President

St. Louis Sampling & Testing Works, Inc.

Chemists, Metallurgists and Mining Engineers

All kinds of analyses, investigations, examinations
and reports in these lines made promptly
and carefully

Philadelphia. 214 Commercial Trust Building

JOHN W. LEITHEAD, '83

General Insurance Broker

Member Insurance Federation of Pennsylvania

Philadelphia Fire Underwriters Association

Life

Graduate Equitable Correspondence School of Ins.

Surety Bonds, Fire, Marine, Life and Liability

Correspondence solicited

Washington, D. C. Colorado Bldg.

14th and G Sts., N.W.

RALPH W. LEE, '87

Fire and Liability Insurance

Correspondence solicited

PROFESSIONAL CARDS—Continued

Philadelphia 1318 Land Title Bldg.

CHARLES N. BUTLER, '88

Patent Attorney

New York City 31 Union Square, West

PERRY & WEBSTER, INC.

Chemical and Industrial Engineers

Investigation, Design and Supervision of
Chemical and Metallurgical Investment and
Plant. Confidential Reports for Financial
Interests.

Robert S. Perry, '88, President

New York City 15 Park Row

CLARENCE W. HUDSON, '89

Consulting Engineer

Designs, Estimates, Reports on
All Classes of Structures

New York City 50 Church St.

ALEXANDER POTTER, '90

Consulting Engineer

Hydraulics, Sanitation, Concrete
Structures

Tel.: 5501 Cortland.

Philadelphia 6th and Walnut Sts.

PERCIVAL DRAYTON '92

Penn Mutual Life Insurance Co.

Protect your Earning Capacity and Dependents
from Loss by OLD AGE, DISABILITY, DEATH
Bell Tel.: Lombard 3780

Washington, D. C. McGill Bldg.

CHARLES J. O'NEILL, '93

Patent Lawyer

Pittsburgh 1st National Bank Bldg.

BATON & ELLIOTT

Consulting Engineers

Reports on Western Mining Property

G. S. Baton, '94

J. R. Elliott

New York City 363 Lexington Ave.

VISSCHER & BURLEY

Architects

T. C. Visscher, '99 J. L. Burley, '94

New York City 39 E. 28th St.

GEORGE L. ROBINSON

Consulting Engineer

Sewers, Sewage Disposal, Water
Supply

Philadelphia 1609 Ranstead St.

POMEROY CONSTRUCTION CO.

Contractors and Builders

J. H. Pomeroy, '00, President.

Ithaca, N. Y. Phone 47

CADWALLADER EVANS, JR., 1901

Consulting Engineer

Mechanical methods for loading
and handling coal, salt and other
bulky products.

General Mining Practice

New York City 233 Broadway

DYER SMITH, '03

Patent Lawyer

WASHINGTON, D.C. NEW YORK CITY
514 Union Trust Bldg 9099-9110 Metropolitan Bldg.

H. J. JACKSON, '08

Agent

THE NORTHWESTERN MUTUAL
Life Insurance Company
of Milwaukee, Wis.

Widener Building Philadelphia

THE R. L. DOLLINGS COMPANY

Investment Bankers

Henry R. Cox, '13

Flemington, N. J.

THE
AMERICAN CAR AND FOUNDRY COMPANY
BUILDERS
OF
RAILROAD EQUIPMENT

WILLIAM CARTER DICKERMAN, '96
VICE-PRESIDENT IN CHARGE OF OPERATION

FRANK FAUST, '94
DIST. MGR. MILTON, PA., DISTRICT

HASELL WILSON BALDWIN, '96
ASST. DIST. MGR. BUFFALO DISTRICT

CHARLES LOOMIS ROGERS, '83
PRESIDENT

THE SLIGO FURNACE CO.

NEW YORK

CHICAGO

ST. LOUIS

BETHLEHEM STEEL COMPANY

Works at

*Bethlehem, Lebanon, Reading, Steelton, Pa.;
Baltimore, Sparrows Point, Md.*

General Offices: Bethlehem, Pa.

SALES OFFICES:

*Atlanta, Baltimore, Boston, Chicago, Cleveland, Detroit,
New York, Philadelphia, Pittsburgh, St. Louis,
San Francisco, Washington*

E. G. Grace, '99

President

Archibald Johnston, '89

Vice-President

H. S. Snyder

Vice-President

C. A. Buck, '87

Vice-President

H. E. Lewis

Vice-President

Quincy Bent

Vice-President

R. E. McMath

Secretary

W. F. Hartmann

Treasurer

F. A. Schick

Comptroller